

HP ThinPro 8.0 Administrator Guide

SUMMARY

This guide is for administrators of HP thin clients based on the HP ThinPro operating system.

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First Edition: August 2022

Document Part Number: N27352-001

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https://ftp.hp.com/pub/tcdebian/pool/ThinPro8.0/

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User input syntax key

Text that you must enter into a user interface is indicated by fixed-width font.

User input syntax key

Item	Description
Text without brackets or braces	Items you must type exactly as shown
<text angle="" brackets="" inside=""></text>	A placeholder for a value you must provide; omit the brackets
[Text inside square brackets]	Optional items; omit the brackets
{Text inside braces}	A set of items from which you must choose only one; omit the braces
I	A separator for items from which you must choose only one; omit the vertical bar
	Items that can or must repeat; omit the ellipsis

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Getting started

This guide is for administrators of HP thin clients based on the HP ThinPro operating system and assumes that you will log in to the system as an administrator when modifying system configurations or using administrative tools as described in this guide.

NOTE: HP ThinPro has two possible OS configurations: ThinPro and Smart Zero. HP ThinPro-based thin clients can be purchased with either OS configuration as the default, and you can switch between OS configurations via Control Panel.

For more information about each OS configuration, see Choosing an OS configuration on page 1. For more information about switching between OS configurations, see Customization Center on page 78.

Finding more information

Information resources for ThinPro and other software is available online.



NOTE: Information at websites listed in this table might be available in English only.

Table 1-1

Resource	Contents
HP support website	Administrator guides, hardware reference guides, white papers, and other documentation.
http://www.hp.com/support	documentation.
	Search for the thin client model, and then see the User Guides section of the support page for that model.
	NOTE: HP Device Manager (HPDM), HP Cloud Endpoint Manager (HPCEM), and HP ZCentral Remote Boost Software each have a dedicated support page. For these products, search for the app name instead, and then see the User Guides section.
Microsoft support website	Documentation for Microsoft® software
http://support.microsoft.com	
Citrix support website	Documentation for Citrix® software
http://www.citrix.com/support	
VMware support website	Documentation for VMware® software
http://www.vmware.com/support	

Choosing an OS configuration

HP ThinPro includes two OS configurations, each tailored for a different thin client deployment scenario:

The **ThinPro** OS configuration is the complete version of the operating system and is the most suitable for multipurpose environments that require advanced administration or end-user customization. Features of this OS configuration include the following:

- Boots to the ThinPro desktop or Active Directory login screen
- Has more connection types than Smart Zero
- Allows multiple connections (of any supported type) to be configured and run simultaneously
- The **Smart Zero** OS configuration is a simpler, more secure version of the operating system and is the most suitable for single-purpose, kiosk-style environments that require minimal administration and little to no end-user customization. Features of this OS configuration include the following:
 - Boots directly to a virtual session and hides the desktop, a feature also known as "kiosk mode"
 - Has fewer connection types than ThinPro
 - Supports only one connection to be configured and run at a time
 - Does not support Active Directory authentication or single sign-on



NOTE: You can switch between OS configurations via Control Panel (see Customization Center on page 78).

You can also customize some of the default settings of each OS configuration; for example, to change which connection types are available, enable kiosk mode for ThinPro, or boot to the desktop for Smart Zero.

For more information about kiosk mode, see Kiosk mode on page 16.

The following table lists the default available connection types for each OS configuration.

Table 1-2 OS conifgurations

OS configuration	Default available connection types
ThinPro	• Citrix®
	• RDP
	• VMware® Horizon® View™
	Web Browser (Firefox)
	• XDMCP
	Secure Shell
	• Telnet
	• Custom
Smart Zero	• Citrix
	• RDP
	VMware Horizon View
	Web Browser (Firefox)

Choosing a remote management service

Regardless of the OS configuration, you can use these remote management services to manage HP ThinProbased thin clients:

- HP Device Manager (HPDM) is the existing device management software for HP Thin Clients and is ideal
 for environments of all sizes. HPDM supports devices that run HP ThinPro OS and Windows[r] 10 IoT OS
 and provides a greater variety of management capabilities than HP Smart Client Services.
- HP Smart Client Services can manage HP ThinPro-based thin clients only and is optimized for use with Smart Zero and a "zero management" scenario. For more information, see HP Smart Client Services on page 81.
- HP Cloud Endpoint Manager (HPCEM) is a new, cloud-ready device management solution that is currently
 in development and will eventually replace HPDM. HPCEM features real-time device monitoring, policybased management, and proactive notifications that help you achieve ultimate productivity. For more
 information about HPCEM or to download HPDM, visit the Cloud Client Software webpage.

HP recommends evaluating the management service that is most useful for your environment. HP does not recommend mixing management service strategies within the same environment because doing so might lead to unintended results.

Starting the thin client for the first time

When you first start a new HP ThinPro-based thin client, a setup program runs automatically. The Initial Setup Wizard allows you to select a language, select the keyboard mapping, select a network connection, and configure the date and time settings.

TIP: To modify the configuration of a single thin client and then copy and deploy the configuration to other thin clients, first use the Initial Setup Wizard and Control Panel to modify the configuration, and then deploy the configuration using HPDM, HPCEM, or HP ThinState. For more information, see GUI overview on page 10 or Control Panel on page 58. For more information about HP ThinState, see HP ThinState on page 69.

Switching between administrator mode and user mode

Follow the instructions outlined below to switch between administrator and user mode.

Right-click the desktop or select Start, and then select Switch to Administrator from the menu.

For more information about the desktop, see Desktop on page 10.

For more information about Control Panel, see Taskbar on page 11 and Control Panel on page 58.

NOTE: The first time you switch to administrator mode, you are prompted to set up an administrator password. The administrator password must be entered every subsequent time you switch to administrator mode. When Active Directory authentication is enabled, you can also switch to administrator mode by entering the domain credentials of a person in the domain admin group.

When in administrator mode, the screen is surrounded by a red border.

HP Disk Encryption

You typically use HP Disk Encryption for the following types of tasks:

- NOTE: HP Disk encryption is off by default.
 - Encrypt a disk where ThinPro Operating System is installed
 - Decrypt an encrypted disk

Suspend disk encryption on an encrypted disk to make changes that affect the locked state of TPM 2.0

TPM 2.0 and HP Disk Encryption

Trusted Platform Module (TPM) 2.0 keeps the key used to encrypt or decrypt the disk secure.

When TPM 2.0 is not installed, you cannot turn on HP Disk Encryption. When TPM 2.0 is installed and you turn on HP Disk Encryption, TPM 2.0 locks the encrypted disk in a "trusted" state (PCR values used by TPM 2.0). For example, when the disk is in the process of being encrypted or is resuming from a suspended state, TPM 2.0 locks the encrypted disk in a "trusted" state.

When you start ThinPro from an encrypted disk, PCR values are calculated and verified against the PCR values of the trusted state. If the values are the same, the key used to encrypt the disk can be retrieved to unlock the encrypted disk, the data on the encrypted disk can be read out, and ThinPro can start normally. If TPM 2.0 detects that the system is in a state different from the trusted state, the encrypted disk cannot be unlocked, and ThinPro cannot start.

Prerequisites for using HP Disk Encryption

To be able to turn on HP Disk Encryption, the following criteria must be met:

- TPM 2.0 is present.
- A valid HP ThinPro license is present.
- You can log on with an administrative account.

A standard user does not have permissions for encrypting or decrypting a disk or suspending disk encryption.

Turning on HP Disk Encryption

Follow these steps to turn on HP Disk Encryption:

- In Control Panel, select Security > Disk Encryption. 1.
- 2. Verify that the **Encryption** state is **OFF**.
- 3. To restart immediately after encryption is complete, select **Reboot automatically after encryption done**. Otherwise, you must manually reboot the computer after the encryption.
- Select the **Turn on Encryption** button.

When disk encryption starts, all applications stop and a new window opens, showing the progress. If a problem occurs, select **Details** for information. The desktop reopens after the encryption is complete.

Turning off HP Disk Encryption

When you turn off encryption, you are decrypting the disk. Follow these steps to turn off HP Disk Encryption:

- In Control Panel, select Security > Disk Encryption. 1.
- Verify that the **Encryption** state is **ON**. 2.
- To restart immediately after decryption is complete, select **Reboot automatically after encryption done**. 3. Otherwise, you must manually reboot the computer after the decryption.
- Select the **Turn off Encryption** button.

When disk decryption starts, all applications stop and a new window opens, showing the progress. If a problem occurs, select **Details** for information. The desktop reopens after the decryption is complete.

Suspending HP Disk Encryption

You can suspend HP Disk Encryption to access encrypted data on a disk that uses HP Disk Encryption. This makes the encryption key available in the clear on the hard disk, meaning that its key protectors are not enabled and it is a "clear" key.

Suspending HP Disk Encryption does not mean that data on the disk is decrypted. Instead, suspension means that the key used to decrypt and unlock the data is available in the clear to everyone. New data written to the disk is still encrypted.

Suspension of HP Disk Encryption is necessary when a change made to the system changes the PCR values that match the trusted state. There are a few changes that can cause such changes in PCR values, as shown below. Other changes require the explicit, manual suspension of HP Disk Encryption.

The following changes do not require explicit suspension of HP Disk Encryption. Instead, encryption is automatically suspended before these changes are made:

- Upgrading a ThinPro Service Pack that contains signed kernels and kernel modules via HP EasyUpdate, HP Auto-Update, or USB Update
- Switching btrfs snapshots that causes signed kernels and kernel modules to be switched
- Factory resetting that causes signed kernels and kernel modules to be switched

The following changes require you to manually suspend HP Disk Encryption:

- Upgrading BIOS
- Upgrading signed kernels and kernel modules

To manually suspend HP Disk Encryption:

- In Control Panel, select Security > Disk Encryption.
- Verify that the Encryption state is ON.
- Select the Suspend button.

Resuming HP Disk Encryption

Resuming HP Disk Encryption is transparent to the user. After suspending HP Disk Encryption, the administrator can make changes to the system, such as upgrading the BIOS or upgrading signed kernels and kernel modules. HP Disk Encryption automatically resumes when you restart the computer, and new PCR values are calculated and updated as a new trusted state.

Commands to encrypt, decrypt, or suspend HP Disk Encryption

Use the following commands with HP Disk Encryption to encrypt, decrypt, or suspend HP Disk Encryption:

- To encrypt HP Disk Encryption
 - # hptc-diskencrypt-reboot -e
- To decrypt HP Disk Encryption

- # hptc-diskencrypt-reboot -d
- To suspend HP Disk Encryption
 - # hptc-diskencrypt-suspend
- NOTE: Certain operations do not work when the disk is encrypted. This includes:
 - Cached Imaging operations (capture and deploy)
 - ThinState Image Capture

2 ThinPro PC Converter

Starting with ThinPro 7.1, you can use ThinPro on hardware other than HP Thin Clients by using HP ThinPro PC Converter Deployment Tool. The system must meet these minimum requirements:

- CPU: Any 64 bit x86 CPU.
- Memory: 4 GB of RAM, with at least 1 GB free for operating system use.
- Storage: 8 GB or more of internal storage for installation.
- Graphics: Intel®, ATI™/AMD®, or NVIDIA®. If the graphics card is not recognized, you can use limited-performance VESA mode.
- Audio: Audio support is optional.
- Networking: A recognized wired or wireless network adapter.
- USB: HP recommends USB Type-C[®] high-performance flash drives.
- Licensing: The ThinPro software must be properly licensed.

The first time that a system boots with ThinPro, a compatibility check window appears showing the compatibility status of the system of each of these requirements.

Deployment tool

HP ThinPro PC Converter Deployment Tool allows you to run ThinPro on a PC that runs Microsoft Windows and that meets the minimum requirements. This tool allows for the creation of a USB flash drive containing the ThinPro image. You can boot and run the ThinPro image from the created USB flash drive or you can install the ThinPro image directly onto the PC. You also have the option of creating a mass-deployment image deployable by remote management tools.

For more details, see the HP ThinPro PC Converter Deployment Tool Administrator Guide.

Compatibility check and installation

The first time that ThinPro is booted from a USB flash drive, the Compatibility Check window appears. The Compatibility Check tool assesses the hardware on the system to see if it meets the minimum requirements and whether the ThinPro software has recognized the device and assigned a device driver. If the system does not meet minimum requirements, or if required hardware is not found, the Compatibility Check tool will display a warning and additional information.

NOTE: The Compatibility Check tool does only a cursory examination of the hardware and driver state. It does not perform detailed functionality checks such as sending network packets, playing audio files, testing for bad blocks of memory, or evaluating performance. HP cannot guarantee that all hardware components in the PC will work well with ThinPro, even if the Compatibility Check tool determines that the PC is compatible.

If ThinPro is running from a USB flash drive, and if the Compatibility Check passes all the required checks, two buttons appear at the bottom of the window. The first button allows the ThinPro software to be installed

directly onto internal storage. The second button allows you to run ThinPro from the USB flash drive without direct installation onto the PC.



NOTE: The installation button will only appear with a USB flash drive created with the Installer Flash Drive option of the Deployment Tool. The Bootable Flash Drive option does not allow installation.

When installing ThinPro onto the PC, you have the option of saving the settings that were configured while running ThinPro from the USB flash drive. If the settings are not saved, the default factory image of ThinPro will be installed.

The Compatibility Check tool can also be started manually from the administrator tools list under the start button.

Licensing

Supported HP Thin Clients are auto-licensed and do not need license files. If a system is auto-licensed, many of the licensing information sources listed below will not be visible.

All other systems need valid license files to run ThinPro. You get license files from the HP Inc. Software Depot.

The Deployment Tool prompts you to browse to valid license files. The files you select will be automatically copied when you create a bootable ThinPro USB flash drive, and also when you create a mass-deployment image.

If the Deployment Tool and valid licenses are used to install ThinPro onto a device, you do not need to manually install license files. However, if you install ThinPro through some other means, you might have to copy license files to the /persistent/licenses directory on the device. You can use HPDM, HPCEM (or some other mechanism), to perform this deployment.

License types

There are three types of license files:

- A Trial License allows you to run ThinPro for a short time without paying any licensing fees.
- A Unit License allows you to run a particular version of ThinPro indefinitely. It also denotes that royalty fees have been paid, and it unlocks any royalty-bearing software.
- A Support License gives access to system patches and enhancements and allows the system to be upgraded to newer versions of ThinPro.

Depending on the combination of licenses present on the system, various features will be made visible, hidden, or disabled.

System tray icon

A system tray icon indicates the licensing state of the system.

Table 2-1 System tray icon

lcon	Description
⊕	Valid license.

Table 2-1 System tray icon (continued)

Icon	Description
0	License near expiration.
	Invalid license (such as an expired trial license).

Hovering over the systray icon gives information about active licenses found on the system. A right-click will launch the System Info app with the **License** tab selected.

Notifications

Notifications might pop up above the system tray icon periodically.

Courtesy notifications warn when a support license or a trial license is approaching expiration. You can disable courtesy notifications through certain registry settings. See Registry keys on page 98 for more information.

Other notifications warn of licensing errors such as expired, missing, or invalid license files. You cannot disable these types of notifications.

System information

The Software License Tab of the System Information application shows both the overall licensing state of the system and details on each license file found on the system, including start and end dates, license count, license serial number, and other information.

Desktop background watermark

Watermark text is displayed on the desktop background with a trial license or with an expired or invalid combination of licenses. You cannot disable this watermark text.

System update tools

If a system is not auto-licensed and it does not have an active support license, the patches and upgrades shown by Easy Update and other system-update tools will be limited.

Royalty-bearing software

Some software used by ThinPro has royalties attached. An example is any feature using H.264 video decoding. If the system is not auto-licensed and no valid unit license is found on the system, royalty-bearing software will be disabled. Trial licenses do not enable royalty-bearing software.

Connections

If no valid license combination is found on the system, the ability to create remote connections to other systems might be limited or disabled.

GUI overview

Desktop

The section describes the GUI of the desktop.



NOTE: The following image demonstrates the desktop for ThinPro with a U.S. locale setting. For Smart Zero, the taskbar is vertical and right-aligned by default, and the desktop theme varies by connection type. The display format of some taskbar information varies by locale setting.



Table 3-1

Item		Description
(1)	Desktop	In ThinPro, you can arrange connection shortcuts in the desktop area and customize the background theme.
		In Smart Zero, the desktop is replaced by a customizable login screen with a theme specific to the chosen connection type.
(2)	Connection shortcuts	Double-click a connection shortcut to launch a connection. Right-click the icon to display a menu of actions related to the current connection and select to drag the icon to a new location.
(3)	Taskbar	Provides quick access to programs and system functions (see <u>Taskbar on page 11</u> for more information).

Taskbar

Section describes the taskbar.



NOTE: The following image demonstrates the taskbar for ThinPro with a U.S. locale setting. For Smart Zero, the taskbar is vertical and right-aligned by default. The display format of some taskbar information varies by locale setting.



Table 3-2

Item		Description
(1)	Start	Displays a main menu. For more information, see <u>Start menu on page 56</u> .
(2)	Application area	Displays the icons for the currently open applications.
		TIP: You can hold down Ctrl+Alt and then press Tab repeatedly to select an application to bring to the foreground.

Table 3-2 (continued)

ltem		Description
(3) System	System tray	Provides quick access to or provides information about certain functions and services.
		Place the cursor over a system tray item to display a tool-tip (select items only). Select to start a configuration action, and right-click to display a menu.
		Items in the system tray can include the following, but some items might not appea depending on the system configuration:
		Audio mixer
		 Keyboard: Select this icon to change the keyboard layout, open the virtual keyboard, or change the system layout. Right-click to open the virtual keyboard. To display the name of the current keyboard layout, hover over the icon.
		 Wired network status: Right-click this icon to display more information about connected network.
		 Wireless network status: Select this icon to see a list of available wireless networks and connect to one by creating a wireless profile for that network.
		 Automatic Update status: The Automatic Update icon is displayed when Automatic Update is checking for updates or updating the computer. To view more information, select the icon. If ThinPro cannot find a valid automatic- update server or if the registry key to display the icon is disabled, the icon is not displayed.
		 Intelligent Input Bus (Ibus): Ibus is an input method (IM) framework for multilingual input in Unix-like operating systems.
		 Battery icon: To open Power Manager, right-click this icon and select Adjust Power Settings.
		 User icon: Indicates that Active Directory authentication is enabled. Select to lock the screen or update the domain password. To display the current user, hover over the icon.
		 License icon: Indicates the state of ThinPro Licensing. Hover over the icon to see details on the currently-active licenses and right-click to go to the System Info page to see more licensing detail. This is not visible on current HP thin clients, as they are auto-licensed.
(4)	Date and time	Displays the current date and time and opens the date and time settings.

Connection configuration

Connection management can be done directly from the desktop as well as through the legacy Connection Manager or the Start menu. By default, the desktop displays an icon as a shortcut for each configured connection.

When you first start the computer, several sample connection icons are displayed on the desktop. You can create a new, generic connection shortcut for any of the connection types supported by ThinPro.

For more information on the legacy Connection manager see Connection Manager (ThinPro only) on page 14.

Creating a new connection shortcut

To create a new connection shortcut:

Right-click the desktop, and then select **Create**.

Desktop icon management

All icons are automatically placed into a grid. You can click and drag an icon to any other grid position on the desktop. After an icon has been moved to a grid position, it is pinned in that position. It stays in that position even if other connection shortcuts are added, deleted, or rearranged.

Any icons not pinned to a grid position are floating. They might be automatically moved when connection shortcuts are added, deleted, or rearranged. To change a pinned icon to a floating icon, right-click the icon and clear Pin Position.

Desktop connection management

Connection management can be done directly from the desktop as well as through the legacy Connection Manager or the Start menu. By default, the desktop displays an icon as a shortcut for each configured connection.

When you first start the computer, several sample connection icons are displayed on the desktop. You can create a new, generic connection shortcut for any of the connection types supported by ThinPro.

For more information on the legacy Connection manager see Connection Manager (ThinPro only) on page 14.

You can start, stop, edit, copy, rename, or delete each connection. If user editing is not enabled, nonadministrator users can only start or stop a connection.

To manage a connection on the desktop, right-click the connection icon, and then select an action.



NOTE: If user editing is not enabled, you must switch to administrator mode to manage a connection.

- Start/Stop: Starts a connection or stops an active connection. You can also double-click the connection icon. When the connection is active, a green circle is displayed on the connection icon, and the connection icon is displayed in the taskbar. When a connection starts, if any connection parameters are missing, a dialog box asks for the missing parameters. For example, because none of the starting icons have a remote server defined, a dialog box asks for the address or name of the remote server when the connection is started.
- **Edit**: Opens the complete connection editor.
- Copy: Creates a copy of the connection with all the parameters of the original connection and a unique
- Rename: Allows you to rename the connection. You can also double-click the text beneath the connection icon or use the connection editor.
- Delete: Deletes the connection.

Connection Manager (ThinPro only)

This section identifies Connection Manager components and explains how to open Connection Manager.

NOTE: HP recommends using the connection shortcuts. However, you can use the legacy Connection Manager interface.

The following image demonstrates Connection Manager with a U.S. locale setting.



Table 4-1

Item		Description
(1)	Connection list	Lists the configured connections and whether each connection is active or inactive.
(2)	Start	Starts the selected connection.
(3)	Stop	Stops the selected connection.
(4)	Edit	Lets you edit the selected connection.
(5)	Delete	Deletes the selected connection.

Table 4-1 (continued)

ltem		Description
(6)	Add	Lets you add a new connection.
		NOTE: See <u>Choosing an OS configuration on page 1</u> for a list of the available connection types.
(7)	Settings	Lets you edit general settings for Citrix connections. These settings apply to all connections of that type.

To open Connection Manager:

- In administrator mode, select **Start**, and then type Connection Manager in the search box.
- Select Connection Manager.

For more information about configuring connections, see the following:

- Connection configuration on page 13
- Connection types on page 18

Advanced connection settings

The following table describes the settings that are available under the Advanced category when editing a connection of any connection type.



NOTE: These settings affect the connection that you are currently configuring only.

Table 4-2 Advanced connection settings

Option	Description
Fallback Connection	Specifies the fallback connection. If the connection fails to start, the fallback connection will attempt to start instead.
	NOTE: This option is not available for the VMware Horizon View connection type.
Auto start priority	Determines the order that connections will auto-start. 0 means auto-start is disabled. The other values determine the startup order, with 1 being the highest priority.
Share credentials with screensaver	Enables users to unlock the local screen saver using their credentials for that connection.
	NOTE: This option is only available for the Citrix, RDP, and VMware Horizon View connection types.
Auto reconnect	If enabled, this connection will attempt to auto-reconnect if the connection is dropped.
	NOTE: Stopping a connection via Connection Manager will prevent an autoreconnection.
Wait for network before connecting	Disable this option if your connection doesn't need the network to start or if you don't want to wait for network to start the connection.

Table 4-2 Advanced connection settings (continued)

Option	Description	
Show icon on desktop	If enabled, a desktop icon is created for this connection. This option is enabled by default.	
	If disabled, the connection is not visible on the desktop, but is visible in the Start menu and Connection Manager.	
Allow the user to launch this connection	If enabled, this connection can be launched by an end user.	
Allow the user to edit this connection	If enabled, this connection can be modified by an end user.	
Login dialog options	Enable or disable these options to configure the login dialog for the connection.	
	NOTE: This option is only available for the Citrix, RDP, and VMware Horizon View connection types.	
	The following options are available:	
	Show server field	
	Show username field	
	Show password field	
	Show domain field	
	Show 'remember me' checkbox	
	NOTE: This option saves the user name and domain, but the password still needs to be entered each time.	

Kiosk mode

When a thin client is configured for kiosk mode, it performs an automatic login to the default connection on startup using predefined user credentials. If the connection is ever lost due to a logout, disconnect, or network failure, it reconnects automatically as soon as it can be restored.

TIP: The remote host can be configured to start resources automatically upon login, making the kiosk mode experience seamless.

The easiest way to configure a thin client for kiosk mode is to switch it to Smart Zero (see <u>Customization</u> <u>Center on page 78</u>) and configure a connection. When this is done, the following settings are set automatically:

- The taskbar auto-hides.
- The connection auto-starts.
- The connection auto-reconnects.
- The connection shares the user credentials with the local screen saver.
- The desktop theme is set to that connection type's default theme.
- The USB redirection protocol in USB Manager is set to that connection type's protocol.

If you want to configure a thin client for kiosk mode in ThinPro (for example, if you want to use a connection type available only with ThinPro), manually configure the following settings for the desired connection:

- In Customization Center, set the taskbar to Auto hide.
- In connection's settings, do the following:
 - Set Auto start priority to 1.
 - Enable Auto reconnect.
 - Enable Share credentials with screensaver, if available.
 - For a Web Browser connection only, select the Enable kiosk mode option.
- In USB Manager, set the proper USB redirection protocol, if necessary.
- 가는 TIP: When in kiosk mode, to minimize the connection and return to the local desktop, press Ctrl+Alt+End.

Connection types

Citrix

The following table describes the supported Citrix Virtual Apps and Desktops backends.

Table 5-1 Citrix Virtual Apps and Desktops backends

Access type	Virtual Apps and Desktops version
PNAgent (legacy)	7.1808 or later
Web browser	7.1808 or later
StoreFront	7.1808 or later

The following table describes the supported Citrix XenApp/XenDesktop® backends.

Table 5-2 Citrix XenApp/XenDesktop backends

Access type	XenApp/XenDesktop version
PNAgent (legacy)	7.6 LTSR and 7.15 LTSR and 7.16 or later
Web browser	7.6 LTSR and 7.15 LTSR and 7.16 or later
StoreFront	7.6 LTSR and 7.15 LTSR and 7.16 or later

Citrix Connection Manager

This section describes the settings that are available under various categories when editing a Citrix connection.



NOTE: Connection, configuration, and advanced settings affect only the connection you are currently configuring. General settings affect all Citrix connections.

Connection

The following table describes the settings that are available under the Connection category when editing a Citrix connection.

Table 5-3 Connection

Option	Description
Name	The connection name.

Table 5-3 Connection (continued)

Option	Description
URL	Citrix service URL or Citrix server FQDN.
	Examples:
	For all modes, it can be the FQDN.
	Example: myserver.com
	For PNAgent, it should be the config.xml URL.
	Example: myserver.com/citrix/pnagent/config.xml
	For Storefront, it should be the store URL.
	Example: myserver.com/Citrix/storefront/mystore/discovery
	For Netscaler, it should be the netscaler URL.
	Example: mynetscaler.com
Credentials	Sets the authentication mode to one of the following:
	 Anonymous login: For StoreFront servers that allow unauthenticated (anonymous) users.
	 Use Single Sign-On credentials: The credentials used at login are also used to start the connection.
	 Ask for credentials at connection start: There are no pre-supplied credential components.
	 Use predefined user, password, and/or domain: Some or all of the credentials are stored and supplied for the connection.
	• Use predefined smart card : The connection is expected to be used with a smart card for authentication.
	Other credential types: RSA, Azure, and multi-factors authentication.
User	The username for this connection.
Password	The password for this connection.
Domain	The domain name for this connection (optional).
Test connection	Checks the URL and the credentials.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Citrix connection.

Table 5-4 Configuration

Option	Description
Auto Reconnect Applications on Login	With this option selected, resources that were open when the user last logged out will be reopened when they log in again.
	TIP: If not using the Citrix SmoothRoaming feature, disable this option to increase your connection speed.

Table 5-4 Configuration (continued)

Option	Description
Autostart mode	Lets you set a specific application or desktop to start automatically when the Citrix connection begins. If set to Auto Start Single Resource , and if there is a single published resource, that resource starts automatically.
	NOTE: This option has no effect if Auto Reconnect Applications on Login is selected and there are applications to reconnect to.
	If you have selected Auto Start Application or Auto Start Desktop, select the Enumeration button to retrieve a list of resources (applications or desktops) and display them in Citrix Connection Manager, which enables you to select resources to start automatically upon connection.
	If you have selected Auto Start Single Resource, select the Enumeration button to retrieve the number of resources. If there is only one resource, it is started automatically upon connection.
Show resources	With this option selected, you must then select where to display the resources:
	• In a window: Displays resources in a window.
	Directly on desktop: Displays resources on the desktop.
Show resources in the Start Menu	With this option selected, remote resources from the connection are shown in the Start menu.
Auto save store	If this option is selected, save the store discovery URL.

General Settings

To edit the general settings:

In Citrix Connection Manager, select the **General Settings** tab, and then select **Xen Connection General** Settings Manager.



NOTE: These settings affect all Citrix connections.

Options

The following table describes the settings that are available under the Options category when editing the Citrix general settings.

Table 5-5 Options

Option	Description
Enable HDX MediaStream	Enables HDX MediaStream.
Enable MultiMedia	Enables multimedia.
Enable Connection Bar	Enables the connection bar.
Enable Auto Reconnect	Enable automatic reconnection of dropped connections.
Enable Session Reliability	Enables the Citrix Session Reliability feature. See Citrix documentation for more information.
Enable keyboard layout synchronization	Enables keyboard layout synchronization between client and VDA.

Table 5-5 Options (continued)

Option	Description
Enable Smart Card Channel	Enables the smart card channel feature.
	NOTE: If you want to use a smart card in the Citrix session but are not using a smart card connection, enable this option.
Enable Application Protection	Enables the application protection feature.
	NOTE: You must restart the system to apply the settings.
Enable Battery Status Indicator	Enables the battery status indicator in the session for the mobile thin client.
Session Reliability Timeout (seconds)	Specifies the session reliability timeout in seconds. The default is 180 seconds.
Enable Clipboard Redirection	Enables clipboard redirection.
Use Data Compression	Use data compression for this connection.
Enable H264 Compression	Enables H.264 compression. See Citrix documentation to determine if this method of data compression is best for your use cases.
Enable Middle Button Paste	Enables the middle mouse button paste function.
Enable cursor color inverting	The cursor color inverts based on the background color of a text. As a result you can easily locate the position of the cursor in the text.
UDP audio through Citrix Gateway (Technical Preview)	Enables UDP audio through the Citrix Gateway.
	NOTE: Technical previews are available for customers to test in their non-production or limited production environments, and to give customers an opportunity to share feedback. Citrix does not accept support cases for feature previews but welcomes feedback for improving them. Citrix might o might not act on feedback based on its severity, criticality, and importance. It is advised that Beta builds are not deployed in production environments.
Support for multiple audio devices (Technical Preview)	If this option is selected, Citrix displays all available local audio devices in a session with their names.
Enable UDP audio	Enables UDP audio.
Enable CEF-based BCR	Enables Chromium Embedded Framework (CEF) for Citrix browser content redirection.
User Agent String	Specify a User Agent string to be used for requests sent to the Citrix server. This option is useful for a NetScaler configuration.
Sound	Sets the sound quality or disables sound entirely.
Transport Protocol	Specifies the transport protocol for the connection and whether to use a fallback transport protocol.
	Off (default): Use TCP.
	• On: Use UDP and do not fall back to TCP on failure.
	Preferred: Try UDP first and fall back to TCP on failure.
Use deprecated cipher suites	Specifies whether the deprecated cipher suites: TLS_RSA, RD4–MD5, RC4_128_SHA are allowed or not.

Table 5-5 Options (continued)

Option	Description
Logging	Sets the debug log level.
	 Verbose
	• Normal
	Only errors (default)
	 Disabled

Local Resources

The following table describes the settings that are available under the Local Resources category when editing the Citrix general settings.

Table 5-6 Local Resources

Option	Description
Citrix USB Redirection Status	To configure, select USB Manager . See <u>Redirecting USB devices on page 77</u> .
	 Enabled: USB redirection is supported for the Citrix connection.
	 Disabled: USB redirection is disabled for the Citrix connection.
Printers	Controls how local printer redirection is handled.
Webcam/Audio-Input	Controls how local webcam and audio input redirection is handled.
Drive Mapping/Redirection	Specifies the method used to access the local drive.
	NOTE: Select only one method of drive redirection.
	 USB Redirection: Enables USB redirection. For more options, open USB Manager.
	 Dynamic Drive Mapping: Enables dynamic drive mapping.
	 Static Drive Mapping (Legacy): Enables static drive mapping, which allows you to specify drive mappings to local paths. To specify these paths, select Configure Mapping Folders.

Window

The following table describes the settings that are available under the Window category when editing the Citrix general settings.

Table 5-7 Window

Option	Description
TWI Mode	Lets you display a single seamless window on the local ThinPro desktop as if it were a native application.
Default Window Size	When TWI Mode is set to Force Seamless Off , this controls the default window size.
Default Window Colors	Sets the default color depth.

Table 5-7 Window (continued)

Option	Description
Left Monitor	When Show the Virtual Desktop on all monitors is disabled, these fields let you specify how the virtual desktop is displayed across specific monitors.
Right Monitor	
Top Monitor	
Bottom Monitor	

Self-Service

The following table describes the settings that are available under the Self-Service category when editing the Citrix general settings (for Workspace mode only).

Table 5-8 Self-Service

Option	Description
Option 1 Enable Kiosk Mode	Configure a user device to start up in kiosk mode, in which self-service starts in full screen mode.
Option 1.1 Show taskbar	Specifies whether the taskbar is displayed or not. Customization Center has more options to customize taskbar.
Option 1.2 Enable shared user mode	Multiple users could share the device.
Option 2 Disable Citrix Workspace – Preferences	Disable Citrix menu item – Preferences in Self-Service UI.
Option 3 Disable Citrix Connection Center	Disable Citrix menu item – Connection Center in Self-Service UI.

Firewall

The following table describes the settings that are available under the Firewall category when editing the Citrix general settings.

Table 5-9 Firewall

Option	Description
Proxy Type	Specifies the proxy type.
Proxy Address	The IP address of the proxy server.
Proxy Port	The port for connection to the proxy server.
Username	The username to use for connection to the proxy server.
Password	The password to use for connection to the proxy server.
Use Alternate Address for Firewall Connection	The Citrix ICA Client will request the alternate address defined for the server when contacting servers inside the firewall. The alternate address must be specified for each server in a server farm.

Keyboard Shortcuts

The following table describes the settings that are available under the Keyboard Shortcuts category when editing the Citrix general settings.

Table 5-10 Keyboard Shortcuts

Option	Description
Enable UseLocalIM	Uses the local input method to interpret keyboard input. This is supported only for European languages.
Use EUKS Number	Controls the usage of Extended Unicode Keyboard Support (EUKS) on Windows servers. Valid options are described below:
	• 0: EUKS is not used.
	• 1: EUKS is used as a fallback.
	 2: EUKS is used whenever possible.
Keyboard Mapping File	Specifies the keyboard mapping file. Select Auto to allow the file to be selected automatically. Otherwise, select a specific mapping file.
	NOTE: To use your own keyboard mapping file, save it in the folder: /usr/lib/ICAClient/keyboard/.
Handling of keyboard shortcuts	Specifies how keyboard shortcuts should be handled. The following settings are available:
	 Translated: Keyboard shortcuts apply to the local desktop (client side).
	 Direct in full screen desktops only: Keyboard shortcuts apply to the remote desktop (server side), but only for a non-seamless ICA session in full-screen mode.
	 Direct: Keyboard shortcuts apply to the remote desktop (server side) for both seamless and non-seamless ICA sessions when their windows have the keyboard focus.
Stop Direct key handling	Specifies the key combination that disables Direct handling of keyboard shortcuts.
Alt+F1 Alt+F12	Lets you add keyboard shortcuts to be handled.

Session

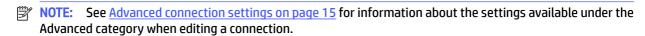
The following table describes the settings that are available under the Session category when editing the Citrix general settings.

Table 5-11 Session

Option	Description
Auto Logout Delay Before App Launch	When using a Citrix server with multiple published resources, this specifies the number of seconds to allow a user to launch an app after login before the system automatically logs out and returns to the initial login screen.
Auto Logout Delay After App Close	When using a Citrix server with multiple published resources, this specifies the number of seconds between the closing of the last Xen published resource and when the user is automatically logged out and returned to the initial login screen.
Server Check Timeout	To perform a basic connectivity check to the selected server and port, set this option to a value other than the default –1 .
TIP: Setting any of these values to less than 0	will disable auto-logout.
NOTE: Citrix processing delays might increase	the auto-logout time.

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.



RDP

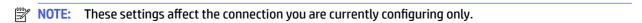
The RDP client is based on FreeRDP 1.1 and meets the following requirements for RDP:

- Hardware-accelerated RemoteFX
- MMR supported when connecting to Windows hosts with the Desktop Experience feature enabled
- USBR supported when connecting to RDP servers that enable it



RDP per-connection settings

This section describes the settings that are available under various categories when editing an RDP connection.



Network

The following table describes the settings that are available under the Network category when editing an RDP connection.

Table 5-12 Network

Option	Description
Connection Name	A custom name for this connection.
Server Name/Address	The IP address or server name for this connection, or the RD Web Access feed URL. If required, the port can be appended to the server after a colon (by default, the port is 3389 for a direct RDP connection).
	NOTE: The RD Web Access feed URL must begin with https://. By default, this is added automatically as specified by the rdWebFeedUrlPattern registry key, which defines the pattern of the URL.
Credentials	 Use Single Sign-On credentials: The credentials used at login are also used to start the connection.
	 Ask for credentials at connection start: There are no pre-supplied credential components.
	 Use predefined user, password, and/or domain: Some or all of the credentials are stored and supplied for the connection.
	• Use predefined smart card : The connection is expected to be used with a smart card for authentication.

Table 5-12 Network (continued)

Option	Description	
User	The username for this connection.	
Password	The password for this connection.	
Domain	The domain name for this connection (optional).	
Use RD Gateway	Enables additional RD Gateway options, such as the gateway address, port, and credentials.	
Server Probe	Launches the Server Probe, which can be used to determine which RDP features are supported by your RDP server.	

Service

The following table describes the settings that are available under the Service category when editing an RDP connection.

Table 5-13 Service

Option	Description
Service	Sets the RDP service to one of the following:
	 Remote Computer: When using this service, a direct RDP connection is created to a remote computer. A remote application or alternate shell can optionally be started upon connection. The following additional options are available for a Remote Computer service:
	 If Mode is set to Remote Application, the Application field specifies the path of the application to run.
	 If Mode is set to Alternate Shell, the Command field specifies the command that executes the application to run in the alternate shell. For example, to run Microsoft® Word, type Word. exe.
	If Mode is set to Alternate Shell , the Directory field specifies the server's working directory path for the application's program files. For example, the working directory for Microsoft Word is C:\Program Files\Microsoft.
	 RD Web Access: When using this service, a list of RemoteApp resources is retrieved from the server and presented to the user, and the actual RDP connection is started when a resource is selected. The following additional options are available for RD Web Access:
	 Keep resource selection window open: With this option selected, users can open multiple resources simultaneously from the resource selection window.
	 Auto-start single resource: With this option selected, and if there is a single published resource, that resource will start automatically upon connection.
	 Resource filter and Web Feed Browser: These can be used to limit the remote resources that will be made available to the user in the resource selection window.
	 Auto-disconnect timeout: With this option selected, you can set how long a Web Access connection can be maintained before it is automatically closed as a security measure.
	NOTE: An advantage of using RD Web Access is that it handles the details of brokered connections and the Load Balance URL automatically.
	For more information, see the HP ThinPro white paper <i>RD Web Access Deployment Example</i> (available in English only).

Window

The following table describes the settings that are available under the Window category when editing an RDP connection.

Table 5-14 Window

Option	Description	
Hide window decorations	This setting makes sure that screen elements such as the menu bar, minimize and close options, and borders of the window pane are not displayed.	
Window size	Sets the window size to full, fixed , or percent .	

Table 5-14 Window (continued)

Option	Description	
Percentage Size	If Window Size is set to percent , this option sets the percentage of the screen that a desktop window occupies.	
	NOTE: The resulting sizes might be rounded.	
	NOTE: RemoteFX supports only a fixed list of resolutions.	
Fixed Size	If Window Size is set to fixed , this option sets the width and height in pixels that the desktop window occupies.	

Options

The following table describes the settings that are available under the Options category when editing an RDP connection.

Table 5-15 Options

Option	Description	
Enable motion events	If enabled, mouse motions are continuously relayed to the RDP server.	
Enable data compression	Enables bulk compression of data between the RDP server and RDP client.	
Enable deprecated RDP encryption	Enables last-generation RDP encryption when NLA is not available.	
Enable offscreen cache	If enabled, off-screen memory is used to cache bitmaps.	
Attach to admin console	Attaches the connection to the administrator console port.	
Cross-session copy/paste	If enabled, copy and paste are enabled between different RDP sessions.	
Enable buffering of RDP6 primitives	If enabled, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.	
Enable Progressive RemoteFX Codec	Enables the RemoteFX Progressive Codec, which transmits the desktop in a series of sharper and sharper images.	
	NOTE: This codec might cause visual artifacts on desktops with highly dynamic content, so this codec can be disabled, if necessary.	
Enable Multimedia Redirection	Allows multimedia files to be sent directly to the client for local playback.	
Certificate verification policy	Select one of the following:	
	Accept all RDP server certificates	
	Use remembered hosts; warn if unknown or invalid certificate	
	Skip remembered hosts; warn if unknown or invalid certificate	
	Connect only to pre-approved RDP servers	
TLS Version	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto .	
	NOTE: There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.	
Send hostname as	For per-device licensing, this selects how the client hostname is sent to the RDP server. Select hostname or mac .	

Table 5-15 Options (continued)

Option	Description
Hostname to send	Normally, the thin client's hostname is used for Client Access Licenses. This field allows a different value to be sent.
	TIP: Select the (i) icon next to this option for more information.
Load Balance Info	Use this option with a brokered RDP connection.
	TIP: Select the (i) icon next to this option for more information.



NOTE: For more information about the options **Enable deprecated RDP encryption** and **TLS Version**, see the HP ThinPro white paper Security Layers for RDP Connections (available in English only).

Local Resources

The following table describes the settings that are available under the Local Resources category when editing an RDP connection.



NOTE: HP recommends high-level device redirection for all local devices unless there is a specific reason to use USB redirection (USBR) instead. For more information, see the HP ThinPro white paper USB Manager (available in English only).

Table 5-16 Local Resources

Option	Description
Audio Devices	Determines whether audio devices are redirected by high-level RDP audio redirection, low-level USB redirection, or disabled for this connection.
Printers	Determines whether printers are redirected by high-level printer redirection (which requires them to be set up via the Printers tool in Control Panel), low-level USB redirection, or disabled for this connection.
Serial/Parallel Ports	Determines whether serial and parallel ports are redirected or disabled for this connection.
USB Storage	Determines whether USB storage devices such as USB flash drives and optical drives are redirected by high-level storage redirection, low-level USB redirection, or disabled for this connection.
Local Partitions	Determines whether local partitions of the USB flash drive of the thin client are redirected or disabled for this connection.
Smart Cards	Determines whether smart cards are redirected by high-level smart card redirection or disabled for this connection.
	NOTE: When the Use predefined smart card setting is enabled, this setting is disabled.
Other USB Devices	Determines whether other classes of USB devices (such as webcams and tablets) are redirected by low-level USB redirection or disabled for this connection.

Experience

The following table describes the settings that are available under the Experience category when editing an RDP connection.

Table 5-17 Experience

Option	Description		
Choose your connection speed to optimize performance	Selecting a connection speed (LAN, Broadband, or Modem) will enable or disable the following options to optimize performance:		
	Desktop background		
	Font smoothing		
	Desktop composition		
	Show contents of window while dragging		
	Menu and window animation		
	• Themes		
	Selecting Client Preferred Settings allows the RDP client to choose which options to use to provide the best RDP experience.		
	You can also select your own custom combination of options.		
End-to-End Connection Health Monitoring	Select to enable the timeout options.		
	NOTE: For more information, see the HP ThinPro white paper <i>RDP Connection Drop Detection</i> (available in English only).		
Warning Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server before the user is warned of a lost connection. This function can be disabled by clearing the option or setting the time to zero.		
	With the Show Warning Dialog option selected, a warning dialog will be displayed when this timeout is reached. Otherwise, the warning is written to the connection log only.		
	TIP: HP recommends increasing the timeout value for networks that experience frequent busy periods or momentary outages.		
Recovery Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits for the connection to recover without taking any special action. At the end of this period, the RDP client attempts a quick reconnection with the session.		
Error Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits before stopping attempts to reconnect with that server.		

Diagnostics

The following table describes the settings that are available under the Diagnostics category when editing an RDP connection.

These features diagnose specific problems and are disabled by default.

Table 5-18 Diagnostics

Option	Description
Show RDP dashboard	If enabled, the RDP dashboard is shown during the connection.
	TIP: Select the (i) icon next to this option for more information.
Show Connection Health Graph	With this option enabled, a two-dimensional graph of response time from the RDP server will be shown when the connection is started.
	TIP: Select the (i) icon next to this option for more information.

Table 5-18 Diagnostics (continued)

Option	Description	
USB Redirection Analysis	This feature determines and displays the current redirection method for each redirected USB device.	
	TIP: Select the (i) icon next to this option for more information.	
Synchronous X11	Forces frequent flushing of X11 buffers at the cost of performance.	
Logging	Enables the X11 logfile. Select the Autoflush option to increase the frequency of log output at the cost of performance.	
Capture	Allows the capture and replay of X11 output from a session.	

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.



NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

RemoteFX

RemoteFX is an advanced graphics display protocol that is designed to replace the graphics component of the traditional RDP protocol. It uses the hardware acceleration capabilities of the server GPU to encode the screen contents via the RemoteFX codec and send screen updates to the RDP client. RemoteFX uses advanced pipelining technologies and adaptive graphics to make sure that it delivers the best possible experience based on content type, CPU and network bandwidth availability, and rendering speed.

RemoteFX is enabled by default. The administrator or user does not have to change any settings to enable it. The RDP client negotiates with any RDP server it contacts, and if RemoteFX is available, it will be used.



NOTE: For more information, see the HP ThinPro white paper Enabling RemoteFX for RDP (available in English only).

RDP multi-monitor sessions

True multi-monitor support does not require special configuration. The RDP client automatically identifies which monitor is specified as the primary monitor in the local settings and places the taskbar and desktop icons on that monitor. When a window is maximized within the remote session, the window will only cover the monitor it was maximized on.

Display preferences and monitor resolutions can be viewed but not modified within the remote session. To modify the session resolution, log out of the session and change the resolution on the local thin client.

By default, all RDP sessions will be full-screen and cover all monitors to enhance the virtualization experience. Additional window options are available in the RDP Connection Manager.



NOTE: Remote Desktop Virtualization Host (RDVH) sessions with graphics card support might only support certain resolutions and counts of monitors. The limits are specified when the RemoteFX virtual graphics device is configured for the RDVH virtual machine.



NOTE: For more information about RDP multi-monitor sessions, see the HP ThinPro white paper True Multi-Monitor Mode for RDP (available in English only).

RDP multimedia redirection

Multimedia redirection (MMR) is a technology that integrates with Windows Media Player on the remote host and streams the encoded media to the RDP client instead of playing it on the remote host and re-encoding it via RDP. This technology reduces the server load and network traffic, and greatly improves the multimedia experience, supporting 24 fps playback of 1080p videos with automatic audio syncing. MMR is enabled by default. The RDP client will negotiate with any RDP server it contacts, and if MMR is available, it will be used.

MMR also uses an advanced codec detection scheme that identifies whether the thin client supports the codec being requested by the remote host before attempting to redirect it. The result is that only supported codecs will be redirected and all unsupported codecs fall back to server-side rendering.

야 TIP: For simplified management, HP recommends that MMR be enabled or disabled on the remote host.

RDP device redirection

Device redirection makes sure that when a user plugs a device into the thin client, the device is automatically detected and accessible in the remote session. RDP supports redirection of many different types of devices.

RDP USB redirection

USB redirection works by transmitting low-level USB protocol calls over the network to the remote host. Any USB device plugged into the local host appears within the remote host as a native USB device, as if it were plugged in locally. Standard Windows drivers support the device in the remote session, and all device types are supported without requiring additional drivers on the thin client.

Not all devices default to USB redirection. For example, USB keyboards, mice, and other input devices usually are not set to be redirected, as the remote session expects input to come from the thin client. Some devices such as mass storage, printers, and audio devices might use additional options for redirection.

Note the following additional information about USB redirection with RDP:

- The server must support USB redirection for it to be available to the thin client. General-purpose USB redirection is supported with RDVH servers with RemoteFX, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016.
- The protocol in USB Manager in Control Panel must be set to RDP.
- For RDP connections, the controls in USB Manager determine if a USB device is redirected. The settings for the individual connection determine how a USB device is redirected.

RDP mass storage redirection

By default, the RDP session redirects all mass storage devices to the remote host using high-level drive redirection. When a device such as a USB flash drive, USB DVD-ROM drive, or USB external HDD is plugged into the thin client, the thin client detects and mounts the drive on the local file system. RDP then detects a mounted drive and redirects it to the remote host. Within the remote host, it will appear as a new disk drive in Windows Explorer, with the name <device label> on <client hostname>; for example, Bill USB on HP04ab598100ff.

There are three restrictions to this type of redirection.

The device will not appear in the taskbar on the remote host with an icon to eject the device. Because of
this, make sure to give the device a sufficient amount of time to sync data after a copy before removing
the device to be sure that the device does not corrupt. Typically, less than one second is required after the
file copy dialog finishes, but up to 10 seconds might be required depending on the device write speed and
network latency.

- Only file systems supported by the thin client will be mounted. The supported file systems are FAT32, NTFS, ISO9660 (CD-ROMs), UDF (DVD-ROMs), and ext3.
- The device will be treated as a directory; common drive tasks like formatting and modification of the disk label will not be available.

USB redirection of storage devices can be disabled in an individual connection's settings. If desired, you can disable mass storage redirection altogether. To do this, turn off USB redirection, and then change the registry keys as described in the following table.

Table 5-19 RDP mass storage redirection

Registry entry	Value to set	Description
root/USB/root/holdProtocolStatic	1	Makes sure that the USBR type will not be automatically changed when a connection is set or unset
root/USB/root/protocol	local	Makes sure that the RDP connection does not attempt to redirect any devices to the remote session

To completely disable local mounting of USB mass storage devices or to disable the redirection of USB mass storage devices but still allow other devices to redirect, in the thin client file system, delete the udev rule /etc/udev/rules.d/010 usbdrive.rules.

RDP printer redirection

By default, RDP has two methods of printer redirection enabled:

- **USB redirection**: Any USB printer plugged into the device will show up as a local printer in the remote session. The standard printer installation process must happen in the remote session if the printer is not already installed on that remote host. There are no settings to manage locally.
- High-level redirection: If either USB redirection is unavailable on the remote host or the printer is a parallel or serial printer, use high-level redirection. Configure the printer to use a local printer spooler, and the RDP client automatically sets up a remote printer that sends print spooling commands through a virtual channel from the remote host to the thin client.

A generic postscript driver is used if no driver is specified, but additional printer features might be available if the printer is set up locally with a specific Windows driver. This Windows driver must match the driver that the printer would use when locally attached to a Windows operating system. This information is usually found under **Model** in the printer properties.



NOTE: See Serial or parallel printer configuration on page 88 for more information.

RDP audio redirection

By default, high-level audio redirection will redirect audio from the remote host to the thin client. Basic voice control might need to be set up, and RDP 7.1 contains a number of advanced audio redirection features that might require additional configuration.

See the following notes about using audio redirection with RDP:

- RDP delivers the highest quality audio as the network bandwidth allows. RDP reduces audio quality to play on low-bandwidth connections.
- No native audio or video syncing mechanisms are available in standard RDP. Longer videos might not sync with audio. MMR or RemoteFX can resolve this issue.

- HP recommends high-level audio redirection, but USB redirection of audio devices is possible if additional functionality is present, such as a digital volume control. Only high-level redirection is available for analog devices.
- Microphone redirection is enabled by default. The default microphone volume might need to be adjusted on the thin client. Older Windows RDP servers must have their settings modified to enable audio input.
- Both the local and remote volume settings will affect the final volume. HP recommends setting the local volume to a maximum and adjusting the volume within the remote host.

RDP smart card redirection

To enable smart card login for an RDP connection:

By default, smart cards will be redirected using high-level redirection, allowing them to be used to log in to the session and other remote applications.

Select Use predefined smart card in the RDP Connection Manager.

This will allow the user to connect without first specifying credentials. The RDP client will start the RDP session, and the user will be prompted to authenticate by smart card.

This technology requires drivers for the smart card reader driver to be installed on the thin client. By default, the CCID and Gemalto drivers are installed, which adds support for the majority of smart card readers available. Additional drivers can be installed by adding them to /usr/lib/pkcs11/.



NOTE: When smart card login is enabled, Network Level Authentication is not supported and is automatically disabled.

VMware Horizon View

VMware Horizon View per-connection settings

This section describes the settings that are available under various categories when editing a VMware Horizon View connection.



NOTE: These settings affect the connection you are currently configuring only.

Network

The following table describes the settings that are available under the Network category when editing a VMware Horizon View connection.

Table 5-20 Network

Option	Description	
Name	Enter a name for this connection.	
Address	Enter the hostname or IP address of a VMware Horizon View server.	

Table 5-20 Network (continued)

Option	Description	
Credentials	Log in anonymously using unauthenticated access	
	 Use Single Sign-On credentials: The credentials used at login are also used to start the connection. 	
	 Ask for credentials at connection start: There are no pre-supplied credential components. 	
	 Use predefined user, password, and/or domain: Some or all of the credentials are stored and supplied for the connection. 	
	• Use predefined smart card : The connection is expected to be used with a smart card for authentication.	
User	Enter the username to use for the connection.	
Password	Enter the password to use for the connection.	
Domain	Enter the domain to use for the connection.	

General

The following table describes the settings that are available under the General category when editing a VMware Horizon View connection.

Table 5-21 General

Option	Description	
Enable MMR	Enables multimedia redirection for BLAST and PCoIP connections.	
	NOTE: HP recommends disabling this option.	
	For connections made with RDP protocol, use the Enable Multimedia Redirection option. See RDP Options on page 37 .	
Enable display scaling	Specifies whether display scaling is enabled.	
Enable USB auto-connect when inserted	Enable USB device redirection when a USB device is inserted.	
Enable USB auto-connect at startup	Enable USB device redirection when a VMware View connection starts.	
Send Ctrl + Alt + Del to virtual desktop	Enable sending Ctrl + Alt + Del to virtual desktop directly.	
Allow Horizon Client data sharing	If your Horizon administrator has opted to participate in the customer experience improvement program, VMware collects and receives anonymous data on client systems to prioritize hardware and software compatibility.	
Enable client drive redirection	Enables the shared folder feature for BLAST and PCoIP connections. This option is enabled by default.	
Don't start application maximized	If enabled, applications do not start in maximized windows.	
Automatic login	When enabled, the user is automatically logged in when the connection is established.	
	NOTE: HP recommends enabling this option.	
Virtualization pack for Skype for Business	Enables virtualization of Skype for Business.	
	NOTE: Video calls might use most of the processing power of a thin client. HP recommends disabling this option.	

Table 5-21 General (continued)

Option	Description
Default Desktop	Specifies a desktop to start automatically when a VMware Horizon View connection is launched.
Preferred Protocol	Lets you select PCoIP, RDP, or BLAST as the preferred protocol or choose to select the protocol later.
Application Size	Sets the application window size. You can select All Monitors , Full Screen , Large Window , or Small Window .
Desktop Size	Sets the desktop window size. You can select All Monitors, Full Screen, Large Window, or Small Window .
Printers	Controls how local printer redirection is handled:
	Integrated printing
	USB Redirection
	• Disable
	NOTE: For connections made with RDP protocol, see <u>RDP printer redirection on page</u> <u>33</u> .
Launch client software in minimized mode	If selected, the Horizon client window remains minimized and hidden in the background when the user-specified remote desktop or published application launches.

Security

The following table describes the settings that are available under the Security category when editing a VMware Horizon View connection.

Table 5-22 Security

Description
Makes the VMware Horizon View client close automatically after users log out of their desktops or the session terminates with an error.
This option is a security feature designed so that a user does not need to take an additional step to fully log out after they are finished with their desktop session.
This option is enabled by default for security purposes but can be disabled if users find that they are often switching to a new desktop pool after logging out of a session and do not want to fully log in again.
Makes the top menu bar invisible for users.
This option enabled by default. Disable it if users prefer to access options for window size or desktop pool selection in a VMware Horizon View session.
If enabled, end users cannot change the server address.
Closes the connection if the session roams from another client. This option is supported on only PCoIP connections.
If selected, the Horizon client does not check the certification revocation list when connecting to the server.

Table 5-22 Security (continued)

Option	Description	
Certificate verification policy	Select one of the following:	
	Allow all connections	
	• Warn	
	Refuse insecure connections	

Table 5-23 BLAST options

Option	Description
Allow H.264 decoding	Allows H264 decoding in the Horizon client.
Allow High Color Accuracy (reduces battery life and performance)	If selected, this option allows increasing color fidelity.
Allow High Efficiency Video decoding (HEVC)	If selected, H265 decoding is allowed in Horizon client.
Allow Blast connections to use operating system proxy settings	Use Network Manager to setup system proxy.

RDP Options

The following table describes the settings that are available under the RDP Options category when editing a VMware Horizon View connection.

Table 5-24 RDP Options

Option	Description	
Enable motion events	Enables motion events for this connection.	
Enable data compression	Uses data compression for this connection.	
Enable deprecated RDP encryption	Enables encryption for this connection.	
Enable offscreen cache	If enabled, off-screen memory is used to cache bitmaps.	
Attach to admin console	Attaches the connection to the administrator console port.	
Cross-session copy/paste	If enabled, copy and paste are enabled between different RDP sessions.	
Enable buffering of RDP6 primitives	If enabled, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.	
Enable Progressive RemoteFX Codec	Enables the RemoteFX Progressive Codec, which transmits the desktop in a series of sharper and sharper images.	
Enable Multimedia Redirection	Allows multimedia files to be sent directly to the client for local playback. For more information, see RDP multimedia redirection on page 32 .	
TLS Version	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto .	
	NOTE: There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.	
Send hostname as	For per-device licensing, this selects how the client hostname is sent to the RDP server. Select hostname or mac .	

Table 5-24 RDP Options (continued)

Option	Description	
Hostname to send	Normally, the thin client's hostname is used for Client Access Licenses. This field allows a different value to be sent.	
	TIP: Select the (i) icon next to this option for more information.	
Load Balance Info	Use this option with a brokered RDP connection.	
	TIP: Select the (i) icon next to this option for more information.	
Remote computer sound	Specifies where the remote computer's sound should be played (remotely or locally) or if it should not be played at all.	
Enable port mapping	Maps the thin client's serial and parallel ports to the remote session.	
Enable printer mapping	Maps the local print queue to the remote session. Use this option if either USB redirection is unavailable on the remote host or the printer is a parallel or serial printer. Configure the printer to use a local printer spooler, and the VMware Horizon View client automatically sets up a remote printer that sends print spooling commands through a virtual channel from the remote host to the thin client.	
	This method requires both that the printer be configured on the thin client and a Windows driver be specified on the thin client because the VMware Horizon View client needs to specify to the remote host which driver to use for the remote printer. This Windows driver must match the driver that the printer would use when locally attached to a Windows operating system. This information is usually found under the Model in the printer properties.	
Shared folders	Add, Remove, or Edit shared folders.	

RDP Experience

The following table describes the settings that are available under the RDP Experience category when editing a VMware Horizon View connection.

Table 5-25 RDP Experience

Option	Description
Choose your connection speed to optimize performance	Selecting a connection speed (LAN, Broadband , or Modem) will enable or disable the following options to optimize performance:
	Desktop background
	Font smoothing
	Desktop composition
	Show contents of window while dragging
	Menu and window animation
	• Themes
	Selecting Client Preferred Settings will allow the VMware Horizon View client to choose which options to use.
	You can also select your own custom combination of options.
End-to-End Connection Health Monitoring	Select to enable the timeout options.

Table 5-25 RDP Experience (continued)

Option	Description
Warning Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server before the user is warned of a lost connection. This function can be disabled by clearing the option or setting the time to zero.
	With the Show Warning Dialog option selected, a warning dialog will be displayed when this timeout is reached. Otherwise, the warning is written to the connection log only.
	TIP: HP recommends increasing the timeout value for networks that experience frequent busy periods or momentary outages.
Recovery Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits for the connection to recover without taking any special action. At the end of this period, the RDP client attempts a quick reconnection with the session.
Error Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits before stopping attempts to reconnect with that server.
	TIP: Select the ? icon next to this field for more information.

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.



NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

VMware Horizon View multi-monitor sessions

VMware Horizon View supports multi-monitor sessions. To enhance the virtualization experience, the default VMware Horizon View sessions use full-screen and span all monitors. To choose a different window size, select Full Screen – All Monitors under the protocol type of the desktop pool for the connection and then choose another option from the window size list. The next time you connect to a session the window will open in the selected size.

VMware Horizon View keyboard shortcuts

Windows keyboard shortcuts

To help administer Windows systems, VMware Horizon View supports Windows keyboard shortcuts. For example, when Ctrl+Alt+Del is used, VMware Horizon View displays a message that provides the following options:

- Send a Ctrl+Alt+Del command.
- Disconnect the session: Use this when you have no other way of ending the session.

Windows keyboard shortcuts will be forwarded to the remote desktop session. The result is that local keyboard shortcuts, such as Ctrl+Alt+Tab and Ctrl+Alt+F4, will not function while inside the remote session.

ेर्ं TIP: To be able to switch sessions, disable the **Hide top Menu bar** option in the VMware Horizon View Connection Manager or via the registry key root/ConnectionType/view/connections/<UUID>/ hideMenuBar.

Media keys

VMware Horizon View uses media keys to control options such as volume, play/pause, and mute during a remote desktop session. This supports multimedia programs such as Windows Media Player.

VMware Horizon View device redirection

VMware Horizon View USB redirection

To enable USBR for VMware Horizon View connections, select **VMware Horizon View** as the remote protocol in USB Manager.

To support composite USB devices USB redirection, set root/ConnectionType/view/connections/<UUID>/useCurrentViewConfig to 1, and edit the /etc/vmware/config file directly.

For more information on USBR, including device- and class-specific redirection, see RDP USB redirection on page 32.

VMware Horizon View audio redirection

If you do not need the audio recording capability, use high-level audio redirection. Audio will play out of the 3.5 mm jack or, by default, a USB headset if it is plugged in. Use the local audio manager to adjust the input/output level, select playback, and capture devices.

The VMware Horizon View client supports high-level audio-record redirection only via the PCoIP connection type on x86 units when connecting to a server running VMware Horizon View 5.2 Feature Pack 2 or higher or the BLAST connection type on x86 units when connecting to a server running VMware Horizon View 7.x or higher. If you need audio-recording support and are using a different configuration, use one of the following methods:

- If your system uses VMware Horizon View Client 1.7 or higher, use the RDP protocol to allow for high-level audio redirection through either the 3.5 mm jack or a USB headset.
- NOTE: To use high-level audio-record redirection through the RDP protocol, the server must support it and be configured to allow audio recording over a remote session. The server must be running Windows 7 or greater. You also must make sure the HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp\fDisableAudioCapture registry key is set to 0.
- If you have a USB headset with a microphone, you can use USBR. Set the USB headset to be redirected
 into the session. The headset will show up as an audio device. By default, USB audio devices are not
 redirected and the VMware Horizon View client uses high-level audio redirection. To redirect the USB
 headset, use the thin client's USB Manager and select the USB headset to be redirected. Make sure that
 VMware Horizon View is selected as the USBR protocol and make sure that the headset is selected under
 the devices to be redirected.
- NOTE: VMware and HP do not recommend using USBR for headsets. A large amount network bandwidth is required to stream audio data over the USBR protocol. Also, you might experience poor audio quality with this method.

VMware Horizon View smart card redirection

To use a smart card to log in to the VMware Horizon View server:

- Be sure smart card login is enabled in the VMware Horizon View Connection Manager.
 After starting the connection, the VMware Horizon View client will display a list of server credentials.
- To unlock the credentials and access the VMware Horizon View Manager server, type the appropriate PIN for the server.
- NOTE: After you supply the correct PIN, the user's credentials will be used to log in to the VMware Horizon View Manager server. Please see the VMware Horizon View documentation for details on configuring the server to support smart card login. As long as the server is configured to allow smart card login, the user's credentials will pass through and they will be logged in to the desktop without having to enter their PIN again.
- NOTE: To log in to the VMware Horizon View Manager administrator server with a smart card, the local smart card driver must be installed on the thin client. See RDP smart card redirection on page 34 for more information on smart card driver installation. Once logged in to the remote host, the smart card will be passed to the remote host using a virtual channel, not USBR. This virtual channel redirection makes sure that the smart card can be used for tasks such as email signing, screen locking, and so on, but might cause the smart card to not show as a smart card device in the Windows Device Manager.
- NOTE: The remote host must have the proper smart card drivers installed.

VMware Horizon View webcam redirection

The VMware Horizon View client supports high-level webcam redirection only through RTAV using x86 units connected to a back-end server running VMware Horizon View 5.2 Feature Pack 2 or higher.

Other connection methods do not support high-level webcam redirection and can redirect webcams only using USBR. Based on internal testing and validation, HP has found that the performance of a webcam connected through basic USBR performs poorly. HP does not recommend the use of this configuration and suggests that customers who require this function test using x86 units with RTAV technology to ensure satisfactory levels of performance. With USBR, the webcam might perform poorly or not at all. See RDP USB redirection on page 32 for more information.

VMware Horizon View COM port redirection

To enable COM port redirection for VMware Horizon View connection:

- **Set** root/ConnectionType/view/general/enableComPortRedirection **to 1 in regeditor**.
- NOTE: By default, this setting is enabled.

Changing the VMware Horizon View protocol

VMware Horizon View Client can use either the PCoIP, RDP, or BLAST protocol.

To change the protocol:

- 1. In VMware Horizon View Client, select a pool that supports one of the supported protocols.
- 2. Under the **Connection** menu, select **Settings**.
- Change the protocol by using the drop-down box next to Connect Via.
- NOTE: Use VMware Horizon View Manager to set which protocol should be used for each desktop pool.
- TIP: HP recommends using the PCoIP protocol to enhance the desktop experience. However, the RDP protocol provides more options for customization and might work better on slower connections.

VMware Horizon View HTTPS and certificate management requirements

VMware Horizon View Client 1.5 and VMware Horizon View Server 5.0 and later require HTTPS. By default, the VMware Horizon View client warns about untrusted server certificates, such as self-signed (like the VMware Horizon View Manager default certificate) or expired certificates. If a certificate is signed by a Certificate Authority (CA) and the CA is untrusted, the connection will return an error and the user will not be allowed to connect.

HP recommends that a signed certificate verified by a standard trusted root CA be used on the VMware Horizon View Manager server. This makes sure that users will be able to connect to the server without being prompted or required to do any configuration. If using an internal CA, the VMware Horizon View client connection returns an error until you complete one of the following tasks:

- Use Certificate Manager to import the certificate from a file or URL.
- Use a remote profile update to import a certificate.
- In the VMware Horizon View Connection Manager, set Connection Security Level to Allow all connections.

The following table describes certificate trust when the security level is set to **Refuse insecure connections**.

Table 5-26 Refuse insecure connections

Certificate trust	Result
Trusted	Trusted
Self-signed	Error
Expired	Error
Untrusted	Error

The following table describes certificate trust when the security level is set to **Warn**.

Table 5-27 Warn

Certificate trust	Result
Trusted	Trusted
Self-signed	Warning
Expired	Warning
Untrusted	Error

The following table describes certificate trust when the security level is set to **Allow all connections**.

Table 5-28 Allow all connections

Certificate trust	Result
Trusted	Trusted
Self-signed	Untrusted
Expired	Untrusted
Untrusted	Untrusted

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The following table describes the connection behavior associated with each result.

Table 5-29 Connection behavior

Result	Description
Trusted	Connects without a certificate warning dialog and displays a green lock icon
Untrusted	Connects without a certificate warning dialog and displays a red unlock icon
Warning	Connects with a certificate warning dialog and displays a red unlock icon
Error	Does not allow the connection

Web Browser

Web Browser per-connection settings

This section describes the settings that are available under various categories when editing a Web Browser connection.



NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Web Browser connection.

Table 5-30 Configuration

Option	Description
Name	The connection name.
URL	The URL for the connection.
Intended Use	Lets you specify how USB redirection is performed when the Web Browser connection starts. Select Citrix , RDP , or Internet .
Allow smartcard login	Allows you to use smart-card authentication for a connection if you select a URL or icon that starts a remote connection.
Enable kiosk mode	Enables kiosk mode.
Enable full screen	Uses full screen mode for the connection.
Enable print dialog	Enables the print dialog box.

Preferences

Use these options to configure the Web Browser. These options can be shared by multiple Web Browser connections or be specific to a single connection.

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.

NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

AVD (Azure Virtual Desktop)

AVD (Azure Virtual Desktop) is part of the Microsoft Azure® system and provides access to cloud-based remote desktops and remote applications. The AVD client for ThinPro is an add-on that you can obtain from ThinUpdate or Easy Update. Restart after you install AVD to create AVD connections. In Addition to AVD, the AVD client also supports Windows 365°. For the Zoom UC optimization plugin for ThinPro, see the Zoom website.

AVD per-connection settings

This section describes the AVD per-connection settings.



NOTE: These settings affect only the connection that you are currently configuring.

Configuration

The following table describes the settings that are available under the **Configuration** category when you edit a AVD connection.

Table 5-31

Option	Description
Name	The connection name.
Workspace URL	The URL for the connection. For example, https://rdweb.wvd.microsoft.com/api/arm/feeddiscovery.
Credentials	Ask for credentials at connection start.
	Use predefined user, password, and domain.
Username	The user name for this connection.
Password	The password for this connection.
Domain	The domain for this connection.

Window

The following table describes the settings that are available under the Window category when editing an AVD connection.

Table 5-32

Option	Description
Window Size	Sets the Window Size to one of the following:
	Full-desktop : The remote session is launched in full screen mode and covers all monitors that are connected to the client.
	Fullscreen : The remote session is launched in full screen mode on the primary screen only.
	Maximized : The remote session is launched in full screen mode on the primary screen only, leaving space for the taskbar.
	If Hide window decorations is selected, all window decorations of the fixed sized window are removed, including title bar and window borders.
	Fixed: The remote session is launched in a fixed-sized window.
	Fixed/Width: Sets width of the fixed-sized session window.
	Fixed/Height: Sets height of the fixed-sized session window.



NOTE: You open AVD remote applications within a single ThinPro window. You can minimize or resize applications within this window. Use Alt+Tab to cycle through the active applications.

Options

The following table describes the settings that are available under the Options category when you edit an AVD connection.

Table 5-33 AVD connection options and their descriptions

Option	Description
Autofill credentials	Autofills credentials into login page.
Headless mode	Autofills credentials into hidden login page.
Remember me	Creates encrypted token cache so that web authentication dialog is not required on every launch.
Forget Me	Clears the encrypted token cache that is created when Remember me is selected.
Autostart Workspace	Specifies the workspace from which a resource starts automatically (optional).
Autostart Resource	Specifies the name of a resource to be started automatically.
Autoclose AVD Feed Window	Automatically close an AVD feed window when a session window is closed.
Set local time zone	Set remote session time zone from the local system's time zone.
Disable the menu bar	Disable the menu bar in the session window.
Disable the dropdown bar	Disable the drop-down bar that appears when the session window is fullscreen.
Close button	Enable the Close button on drop-down bar.
Minimize button	Enable minimize button on the drop-down list.

Table 5-33 AVD connection options and their descriptions (continued)

Option	Description
Maximize button	Enable maximize button on the drop-down list.
Ctrl+Alt+D	Add Ctrl+ Alt+Delete to list of keyboard shortcuts on the drop-down list.

Local Resources

The following table describes the settings that are available under the Local Resources category when editing an AVD connection.

Table 5-34

Option	Description
Audio Output	Determines whether audio output is redirected.
Audio Input	Determines whether audio input is redirected.
Filesystem	Determines whether removable storage is redirected.
Smart Cards	Determines whether smart cards are redirected.
Clipboard	Determines whether clipboard is redirected.
Virtual Channel Plugins	Determines whether virtual channel plugins are enabled or disabled. Must be enabled for Zoom UC optimization plugin.
Camera	Determines whether camera is redirected.

TTerm

Because TTerm is not included with the base image, you must download it and install it separately.

To install the TTerm package:

- 1. Download thinpro-tterm-<version>.xar, and copy it to ThinClient.
- 2. Install the .xar package.
- 3. Restart.

To configure and use TTerm connection:

- Right-click the desktop, select Create, select Other, and select TTerm, which creates a TTerm connection on the desktop.
- 2. Right-click the **TTerm Connection**, select **Edit**, and then edit the connection.

Configuration

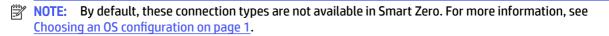
The following table describes the settings that are available under the Configuration category when editing an TTERM connection.

Table 5-35 Configuration options

Option	Description
Name	The connection name.
Open Profile Directory	It opens TTerm Linux Profile Directory to create, modify, and delete profiles.
Profile(s)	Set the profile or profile named list.
	Examples:
	Start a session with profile name default:
	Set the value to default.
	 Start a session with profile named New profile and two sessions with profile named default:
	Set the value to New profile default default.
Monitor settings	Full screen: TTerm opens in Full screen mode.
	Maximized: TTerm opens in maximized mode.
View configuration	Enable Menu bar
	Enable Toolbar
	Enable status bar
	Enable session panel

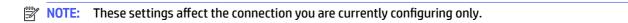
Additional connection types (ThinPro only)

This section describes the settings that are available under various categories when editing additional connection types.



XDMCP

This section describes the settings that are available under various categories when editing an XDMCP connection.



Configuration

The following table describes the settings that are available under the Configuration category when editing an XDMCP connection.

Table 5-36 Configuration

Option	Description
Name	The connection name.
Туре	The XDMCP connection type. Valid options are: chooser, query, and broadcast.

Table 5-36 Configuration (continued)

Option	Description
Address	This value is required if the Type value is set to query .
Use font server	Use a remote X font server instead of locally installed fonts.
Font server	Font server is not enabled unless the Use font server option is selected.
Configure display	Select to set the display configuration for the connection. If you do not set this configuration, the default configuration will be used.

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.



NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

Secure Shell

This section describes the settings that are available under various categories when editing a Secure Shell connection.



These settings affect only the connection you are currently configuring. NOTE:

Configuration

The following table describes the settings that are available under the Configuration category when editing an SSH connection.

Table 5-37 Configuration

Option	Description
Name	The connection name.
Address	The IP address of the remote system.
Port	The remote port to use for the connection.
User name	The username to use for the connection.
Run application	The application to run to make the connection.
Compression	Select this option if you want to compress the data sent between the server and thin client.
X11 connection forwarding	If the server has an X server on it, select this option to allow the user to open user interfaces from the SSH session and display them locally on the thin client.
Force TTY allocation	Select this option and specify a command to initiate a temporary session to run the command. Once the command has completed, the session will terminate. If no command is specified, then the session will run normally as if the option were not selected.
Foreground color	The default color of the text in the SSH session.
Background color	The default color of the background in the SSH session.
Font	Valid options are: 7X14 , 5X7 , 5X8 , 6X9 , 6X12 , 7X13 , 8X13 , 8X16 , 9X15 , 10X20 , and 12X24 .

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.

NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

Telnet

This section describes the settings that are available under various categories when editing a Telnet connection.

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Telnet connection.

Table 5-38 Configuration

Option	Description
Name	The name of the connection.
Address	The IP address of the remote system.
Port	The port to use on the remote system.
Foreground color	The foreground color.
Background color	The background color.
Font	Valid options are: 7X14 , 5X7 , 5X8 , 6X9 , 6X12 , 6X13 , 7X13 , 8X13 , 8X16 , 9X15 , 10X20 , and 12X24 .

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.

NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

Custom

If you would like to install a custom Linux® application, you can use the Custom connection to allow you to open this application through Connection Manager.

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Custom connection.

Table 5-39 Configuration

Option	Description
Name	The connection name.
Enter command to run	The command to run to make the remote connection.

Advanced

This section references where you can find information about Advanced connection settings under the Advanced category, when editing a connection.



NOTE: See Advanced connection settings on page 15 for information about the settings available under the Advanced category when editing a connection.

6 **HP True Graphics**

HP True Graphics offloads rich multimedia content to the thin client's GPU, delivering high-frame-rate images and boosting efficiency.

Server-side requirements

See the following table for a list of supported server-side products of the independent software vendor (ISV) you are using for your virtual desktop infrastructure (VDI).

Table 6-1 Server-side requirements

ISV	Supported products
Citrix®	XenApp®/XenDesktop® 7.0 or newer
	IMPORTANT: The Citrix server must support sending session data in H.264 format (a Citrix technology known as SuperCodec). H.264 is enabled by default and is processed using the DeepCompressionV2 encoder, a CPU-based compression algorithm.
VMware®	VMware Horizon™ 6.0 and newer
	VMware Horizon View™ 5.2 and 5.3
	VMware View® 5.1

Client-side requirements

See the following table for a list of supported thin client operating systems and supported client-side software from the ISV you are using for your VDI.



NOTE: HP True Graphics are not available with a Trial ThinPro license.

Table 6-2 Client-side requirements

Supported operating systems	Supported Citrix clients	Supported VMware clients
HP ThinPro 5.0 and newer	Citrix Receiver 13.1.1 and newer NOTE: A version of Citrix Receiver that supports HP True Graphics is preinstalled starting with HP ThinPro 5.2 and is available as an add-on for HP ThinPro 5.0 and 5.1.	VMware Horizon Client 4.0 and newer (using the Blast protocol)

Client-side configuration

This section describes the client-side configuration.

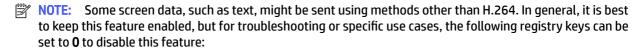


NOTE: The information in this section applies to Citrix only. For VMware, simply use the Blast protocol to enable HP True Graphics.

Compression settings

To enable HP True Graphics on HP ThinPro:

Select the Enable H264 Compression general setting for Citrix connections.



- root/ConnectionType/xen/general/enableTextTracking
- root/ConnectionType/xen/general/enableSmallFrames

Window settings

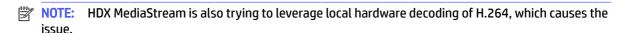
To force remote applications to run in windowed mode:

Set the TWI Mode general setting for Citrix connections to Force Seamless Off.

Monitor layout and hardware limitations

Consider the following limitations on monitor layout:

- Most configurations with a maximum of two monitors that have a 1920 x 1200 resolution are supported.
- HP t630 Thin Client: This model supports a maximum of two monitors at 1920 × 1200 or one monitor at 3840 × 2160.
- HP t730 Thin Client: This model supports a maximum of three monitors at 1920 x 1200.
- Rotated monitors might not display correctly.
- If you are using HP True Graphics with two monitors and trying to play a video using HDX MediaStream, the video will fail because H.264 supports only two hardware decode sessions, which are being consumed by the monitors.



Tips & best practices

Consider the following when using HP True Graphics:

- After connecting to a remote desktop, you can use Citrix HDX Monitor to determine which encoder is being
 used for the session by examining the Component_Encoder value under the Graphics Thinwire Advanced
 section. If the value reads DeepCompressionV2Encoder or DeepCompressionEncoder, then the server is
 properly sending the data in a format that is accelerated by HP True Graphics.
- NOTE: If legacy graphics are being forced via a server policy, such as CompatibilityEncoder or LegacyEncoder, the server is compressing graphics in a method that is compatible with older versions of Citrix clients, and HP True Graphics will not provide enhanced performance.
- HP True Graphics might provide some benefits to older versions of XenDesktop if using HDX 3D Pro.
 Benefits are not provided if HDX 3D Pro is used with the visual quality set to Always Lossless, because then the graphical information is not sent to the thin client in H.264 format.

Active Directory integration

By using Active Directory integration, you can force users to log in to the thin client using domain credentials. Optionally, those credentials can be encrypted and stored and then later supplied to remote connections as they start, which is a process known as single sign-on.



NOTE: Enabling authentication requires no special domain permissions.

There are two modes in which Active Directory integration can operate. By simply enabling authentication against the domain, domain credentials can be used for the following operations:

- Logging in to the thin client
- Starting a connection using Single Sign-On
- Switching to administrator mode using administrative credentials
- Unlocking a locked screen using the login credentials
- Overriding a locked screen using administrative credentials

The thin client can also be formally joined to the domain. This adds the thin client to the domain's database and might enable dynamic DNS, where the thin client informs the DNS server of changes in its IP address or hostname association. Unlike domain authentication, a formal join requires credentials of a domain user authorized to add clients to the domain. Joining to the domain is optional. All domain functions except dynamic DNS are available without joining.

Login screen

When domain authentication is enabled, ThinPro displays a domain login screen upon startup. The login screen also includes options that might be necessary to configure before logging in.

The background desktop layout, login dialog style, login dialog text, and which buttons are available can all be adjusted via registry settings and/or configuration file settings. For more information, see the HP ThinPro white paper Login Screen Customization (available in English only).

If the system detects that the user tried to log in with expired credentials, they are prompted to update their credentials.

Single sign-on

After a domain user has logged in, the credentials that were used can also be presented at startup to any connection configured to use them. This allows a user to sign in to the thin client and start Citrix, VMware Horizon View, and RDP sessions without having to enter their credentials again, for as long as they are logged in to the thin client.

Desktop

Once the user has successfully logged in using domain credentials, an Active Directory icon is available on the taskbar. The user can select the icon to perform the following functions:

- Show who is logged in to the system
- Lock the screen
- Change the domain password



NOTE: Domain password changes from ThinPro can fail for various reasons. Here are a couple of known failure modes:

Password changes can fail if you have the following options enabled in the AD Security policies:

Computer Configuration\Windows Settings\Security Settings\Local Policies\Security Options\Network security\Minimum session security for NTLM SSP based (including secure RPC) clients

Require NTLMv2 session security

Require 128-bit encryption

Computer Configuration\Windows Settings\Security Settings\Local Policies\Security Options\Network security\Minimum session security for NTLM SSP based (including secure RPC) server

Require NTLMv2 session security

Require 128-bit encryption

Minimum Password Age Policy not set to 0:

GPO Default Domain Policy Comp Config\Policies\Windows Setting\Security Settings\Account Policies\Password Policy\Minimum password age:

Setting this value to 0 might help workaround the limit but likely is not acceptable with the customer.

The customer must use alternative AD practices to help end users change an expired password in those scenarios.

Screen lock

The screen can be locked due to inactivity timeout or through manual locking. If the screen was locked by a domain user, the unlock dialog expects the user to provide the same domain password they used to log in. Like the login dialog, there are options provided, plus one additional function: screen unlock. If the screen-unlock button is selected, the unlock screen instead requires the root (administrator) password or any set of domain credentials in the domain admin group, which was designated during domain authentication setup. When the user supplies override credentials, the screen does not return to the desktop; it instead returns to the login screen.

Administrator mode

In addition to the traditional method of using the root password to enter administrator mode, the domain credentials of a user in the designated domain administrator group can be used to switch to administrator mode.

Settings and the domain user

When a domain user is logged in, any changes to settings are saved in a registry layer that applies only to that user. This includes newly created connections.

If the user has made no changes to system settings or connections, the system defaults will apply instead.

When the system is changed to administrator mode, settings and connection changes are no longer being made to the user-specific layer of the registry. Instead, while in administrator mode, all changes apply instead to the base-level registry. In that way, a change to a setting while in administrator mode applies to all users unless there is a user-specific, custom setting already specified.

8 Start menu

To open the Start menu, select Start.

Connection management

The menu lists all the available connections. Right-click the connection name to manage that connection or select it to start the connection. If the connection is running, selecting it stops the connection.

For more information on connection management, see Desktop connection management on page 13.

Switch to Administrator/Switch to User

This option allows you to switch between administrator mode and user mode.

System Information

This option starts the System Information application.

For more information, see System Information on page 80.

Control Panel

This option starts Control Panel.

For more information, see Control Panel on page 58.

Tools

There are many system tools provided, including one to start programs, such as a text terminal, or to run the Initial Setup Wizard a second time. If you are logged in as a user, only authorized tools are displayed. If this list is empty, the Tools menu entry is hidden.

Table 8-1 Tools

Menu option	Description
X Terminal	Lets you execute Linux commands.
Wireless Statistics	Lets you view information about wireless access points.
Check for Updates	Searches for updates from the server.
Text Editor	Opens a basic text editor for viewing and editing text files.
Task Manager	Lets you monitor the CPU usage and the CPU usage history for the thin client.
Snipping Tool	Lets you take a snapshot of a rectangular selection of the screen, a specific window, or the entire screen.
Registry Editor	Opens the ThinPro Registry Editor.

Table 8-1 Tools (continued)

Menu option	Description
Initial Setup Wizard	Starts the Initial Setup Wizard.
Compatibility Check	Runs the ThinPro Compatibility Check tool, which assesses the system's suitability for running ThinPro.

Power

These options allow you to log out, shut down the computer, restart the computer, or enable the Sleep state.

An administrator can restrict the options visible to a user using the Power Manager tool. See System on page58.

Search

When you type in the search box, a set of potential matches for your search are displayed from most likely to least likely. The search includes the visible names of controls, tools, and connections and associated aliases and synonyms. For example, in administrator mode, typing encryption displays the Security control, because that control offers encryption parameters.

To see all available options, type a space in the search box or select the magnifying glass icon.

Search also returns the options to create new connections of all available types. This can be used to manage connections.

9 Control Panel

Control Panel lets you modify the system configuration.

Opening Control Panel

To open control panel:

- Select Start, and then select Control Panel.
- NOTE: You can also search for a specific Control Panel function using the Start menu search box.
- NOTE: All Control Panel items are accessible in administrator mode. In user mode, only Control Panel items that are enabled by the administrator for use by users are accessible.
- TIP: To specify which Control Panel items end users have access to, open Control Panel, select **Appearance**, select **Customization Center**, and then select or clear items in the **Applications** list.

System

This section describes the system configuration.

Table 9-1

Menu option	Description
Date and Time	Lets you configure the time zone and the date and time options.
Network	Lets you configure network settings.
	For more information, see <u>Network settings on page 59</u> .
DHCP Options	Lets you configure DHCP options.
	For more information, see <u>DHCP options on page 63</u> .
Power Manager	Lets you configure power management settings such as a screen saver and screen lock, CPU settings, when to turn off the display, and when to enter the Sleep state.
	In administrator mode, you can restrict access to power-related options (such as Reboot) on a system-wide basis.
Imprivata Setup	Lets you enable Imprivata Appliance Mode and specify an Imprivata server, see Imprivata Setup on page 63.
Component Manager	Lets you remove system components.
	For more information, see <u>Component Manager on page 64</u> .
Factory Reset	Lets you restore the thin client to its default factory configuration.
Snapshots	Lets you restore the thin client to a previous state or to its default factory configuration.

Network settings

Network settings can be configured using Network Manager.

Opening Network Manager

To open the Network Manager:

Select System and then select Network in Control Panel.

See the following sections for more information about the different tabs in the Network Manager:

Wired network settings

The following table describes the options available in the **Wired** tab of the Network Manager.

Table 9-2 Wired network settings

Option	Description	
Enable IPv6	Enables IPv6. IPv4 is used by default, and they cannot be used at the same time.	
Ethernet Speed	Lets you set the Ethernet Speed. If your switch or hub does not have a special requirement, leave this at the default setting of Automatic .	
Connection Method	Lets you choose between Automatic and Static . If your network environment is using DHCP, then th Automatic option should work without any further configurations needed.	
	If Static is selected, the Static Address Configuration settings will become available. Be sure to input these values according to whether you are using IPv4 or IPv6.	
мти	Allows you to enter the maximum transmission unit (in bytes).	
Security Settings	Lets you set the authentication setting to one of the following:	
	• None	
	• 802.1X-TTLS	
	• 802.1X-PEAP	
	• 802.1X-TLS	
	Note the following about TTLS and PEAP:	
	 The Inner Authentication option should be set to whatever your server supports. 	
	• The CA Certificate setting should point to the server's certificate on the local thin client.	
	• The Username and Password are the user's credentials.	
	Note the following about TLS:	
	• The CA Certificate setting should point to the server's certificate on the local thin client.	
	• If your Private Key file is .p12 or .pfx, then the User Certificate setting can be left blank.	
	 The Identity setting should be the username that corresponds to the user certificate. 	
	 The Private Key Password setting is the password of the user's private key file. 	

Wireless network settings

Use this tab to add, edit, and delete wireless profiles that correspond to wireless networks.

The following tables describe the options available when adding or editing a wireless profile.



NOTE: This tab is available only if the thin client has a wireless adapter.



강 TIP: You can also access these settings by selecting the network status icon in the taskbar.

Use the Wireless tab to configure general settings.

Table 9-3 Wireless network settings

table 3-5 Wileless network settings		
Option	Description	
Scan AP	Scans for available wireless networks.	
SSID	Use this box to manually enter the SSID of the wireless network if it is not found by the scan.	
Wireless Band	Select Auto, 2.4GHz , or 5GHz .	
SSID Hidden	Enable this option if the SSID of the wireless network is set to be hidden (not broadcasting).	
Enable IPv6	Enables IPv6. IPv4 is used by default, and they cannot be used at the same time.	
Enable Power Management	Enables the power management feature for the wireless adapter.	
Connection Method	Lets you select between Automatic and Static . If your network environment is using DHCP, then the Automatic option should work without any further configurations.	
	If Static is selected, the Static Address Configuration settings will become available. Be sure to input these values according to whether you are using IPv4 or IPv6.	
Security Settings	Lets you set the authentication setting to one of the following:	
	• None	
	• WEP	
	WPA/WPA2-PSK	
	• 802.1X-TTLS	
	• 802.1X-PEAP	
	• 802.1X-TLS	
	• EAP-FAST	
	For WEP and WPA/WPA2-PSK, you just need to enter the network key and select OK .	
	For EAP-FAST, set Anonymous Identity, Username , Password , and Provisioning Method . You do not need to change the PAC file settings.	
	See Wired network settings on page 59 for more information about TTLS, PEAP, and TLS.	
Auto Connect	This option is reserved for future use.	
Enable Wireless	Enables the wireless adapter.	

Use the **IPv4** tab to configure IPv4 connection settings.

Table 9-4 IPv4 connection settings

Option	Description
IPv4 Enabled	Enables IPv4.

Table 9-4 IPv4 connection settings (continued)

Option	Description
IPv4 Method	Lets you select between Automatic and Static . If your network environment is using DHCP, then the Automatic option should work without any further configurations.
	If Static is selected, the Static Address Configuration settings are displayed, and you must enter the IPv4 settings.

Use the **IPv6** tab to configure IPv6 connection settings.

Table 9-5 IPv6 connection settings

Option	Description
IPv6 Enabled	Enables the usage of an IPv6 global address.
	NOTE: HP ThinPro tries to obtain an IPv6 global address via route advertisement or DHCPv6.
IPv6 Method	Lets you select between Automatic and Static . If your network environment is using DHCP, then the Automatic option should work without any further configurations.
	If Static is selected, the Static Address Configuration settings are displayed, and you must enter the IPv6 settings.

Use the **Security** tab to configure the connection security settings.

Table 9-6 Connection security settings

Option	Description
Authentication	Lets you set the authentication setting to one of the following:
	 None
	• WEP
	• WPA/WPA2-PSK
	WPA/WPA2 Enterprise-TTLS
	WPA/WPA2 Enterprise-PEAP
	WPA/WPA2 Enterprise-TLS
	• EAP-FAST
	For WEP and WPA/WPA2-PSK, you just need to enter the network key and select OK .
	For EAP-FAST, set Anonymous Identity, Username , Password , and Provisioning Method . You do not need to change the PAC file settings.
	See Wired network settings on page 59 for more information about TTLS, PEAP, and TLS.

DNS settings

The following table describes the options available in the ${\bf DNS}$ tab of the Network Manager.

Table 9-7 DNS settings

Option	Description
Hostname	This is generated automatically according to the MAC address of the thin client. You can alternatively set a custom hostname.
DNS Servers	Use this box to set custom DNS server information.
Search Domains	Use this box to restrict the domains that are searched.
HTTP Proxy	Use these boxes to set proxy server information using the following format:
FTP Proxy	http:// <address>:<port></port></address>
HTTPs Proxy	HP recommends using the $\mathtt{http://prefix}$ for all three proxy settings because it is supported better.
	NOTE: The proxy settings are set to the http_proxy , ftp_proxy , and https_proxy environmental variables for the system.

IPSec rules

Use this tab to add, edit, and delete IPSec rules. An IPSec rule should be the same for each system that uses IPSec to communicate.

When configuring an IPSec rule, use the General tab to set the rule's information, addresses, and authentication method. The Source Address is the IP address of the thin client, and the Destination Address is the IP address of the system that the thin client is going to communicate with.



NOTE: Only the **PSK** and **Certificate** authentication types are supported. Kerberos authentication is not supported.

Use the **Tunnel** tab to configure settings for tunnel mode.

Use the Phase I and Phase II tabs to configure advanced security settings. The settings should be the same for all peer systems that communicate with each other.



NOTE: An IPSec rule can also be used to communicate with a computer running Windows.

Configuring VPN settings

HP ThinPro supports two types of VPN:

- Cisco
- PPTP

Enable the **Auto Start** option to start the VPN automatically.

Note the following about creating a VPN using Cisco:

- The **Gateway** is the gateway's IP address or hostname.
- The **Group name** and **Group password** are the IPSec ID and IPSec password.
- The **Domain** setting is optional.
- The User name and User password are the user credentials that have rights to create a VPN connection on the server side.

- The Security Type should be set the same as it is on the server side.
- The **NAT Traversal** option should be set according to your VPN environment.
- The IKE DH Group option sets the Diffie-Hellman group to use for VPN.
- The **PFS Type** option sets the Diffie-Hellman group to use for Perfect Forward Secrecy.

Note the following about creating a VPN using PPTP:

- The Gateway is the gateway's IP address or hostname.
- The **NT Domain** setting is optional.
- The User name and User password are the user credentials that have rights to create a VPN connection on the server side.

DHCP options

How to configure and manage DHCP options.

Opening the DHCP Option Manager

To open the DHCP Option Manager:

Select System and then select DHCP Options in Control Panel.

Request or ignore DHCP options

To direct the thin client to request or ignore specific DHCP options:

The DHCP Option Manager displays details of the DHCP options that are requested by the thin client.

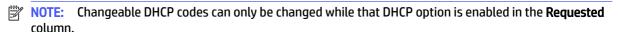
- The drop-down list allows you to filter which DHCP tags are displayed.
 - Select or deselect the check boxes in the Requested column.

Changing a DHCP code

To change a DHCP code:

If a pencil is shown in the **DHCP Code** column, the code number can be changed in case there is a conflict on your DHCP server over a particular code number.

Double-click the DHCP code and type a new number.



Information about DHCP options

To learn more about how a DHCP option is used on the thin client and on the DHCP server:

Select the icon in the Info column of that option.

Imprivata Setup

These two packages are installed on ThinPro:

- Imprivata OneSign Bootstrap loader: onesign-bootstrap-loader
- HP Imprivata helper scripts (vendor launch scripts): hptc-imprivata-helper

When Imprivata Appliance Mode is enabled, the OneSign Bootstrap loader connects on the specified Imprivata OneSign server and installs or updates the Imprivata ProveID Embedded agent (PIE agent).

The PIE agent is installed into the directory /usr/lib/imprivata/runtime/.

As of ThinPro 7.2, you need an Imprivata OneSign server 6.3 or later. The HP Imprivata helper scripts launch the VDI client. The VDI client is a Citrix, VMware, or RDP client.

The HP helper scripts are installed into the directory /usr/lib/Imprivata-helper/.

The Imprivata agents use two log files:

- /usr/lib/imprivata/runtime/log/OneSign.log
- /usr/lib/imprivata/runtime/log/OneSignAgent.log
- NOTE: More information can be found at http://documentation.imprivata.com.
- NOTE: Verify that the certificate of the Imprivata OneSign server is valid on ThinPro. You might have to install it or its Root CA certificate. See Certificate Manager on page 67.

To open the Imprivata Setup:

Select System and then select Imprivata Setup in Control Panel.

Component Manager

Component Manager lets you remove system components that are not used in your environment, which might be desirable to reduce the image size or increase security. For example, if Citrix connections are never used in your environment, you might want to remove the Citrix component.

As components are removed, the new configuration can be tested before you apply the changes permanently. You can also undo changes that were made, if the changes have not yet been applied permanently.

- IMPORTANT: After the new configuration is applied permanently, all snapshots are removed and a new factory snapshot is created. Removed components cannot be restored after this point.
- NOTE: Removing components might not reduce the use of local disk space, but it should reduce the size of any disk images created from the local system.

To open the Component Manager:

Opening Component Manager

To open Component Manager:

Select System and then select Component Manager in Control Panel.

Removing components

To remove components:

- 1. In the Component Manager, select the desired components.
- TIP: To select multiple components, use Ctrl or Shift.

- 2. Select Remove Component(s).
- 3. If the confirmation dialog appears, select **OK**.
- 4. After the components are removed, test the new configuration.

Undoing a change

You can undo each change, one at a time, if the changes have not yet been applied permanently. A restart of the thin client is required after each undo.

To undo a change made with the Component Manager:

- 1. In the Component Manager, select **Revert Last Change**.
- 2. Select **Yes** to restart the thin client.

Repeat this process for as many changes you want to undo.

IMPORTANT: If you take a snapshot of the image while testing a new configuration, you cannot undo the changes via the Component Manager. Those changes can be undone only by restoring a previous snapshot via the Snapshots tool. However, this does not work if the changes have already been applied permanently, because that function deletes all existing snapshots. If changes have already been applied permanently, you must reinstall the operating system to restore most removed components. Some components (such as Citrix, RDP, and VMware Horizon View) might be available as add-ons on the web and can be restored by reinstalling them.

Applying the changes permanently

To apply changes made with the Component Manager permanently:

- **IMPORTANT:** After the new configuration is applied permanently, all snapshots are removed and a new factory snapshot is created. Removed components cannot be restored after this point.
 - 1. In the Component Manager, select **Apply Component Configuration**.
 - Select Yes.

Security

This section describes the Security configuration.

Table 9-8

Menu option	Description
Security	For more information, see <u>Security settings on page 66</u> .
Change Domain Password	If a domain is being used, lets you change the domain password.
Certificates	Opens Certificate Manager, which lets you easily import, view, or remove certificates.
	For more information, see <u>Certificate Manager on page 67</u> .
Firewall Manager	Lets you configure firewall settings.
SCEP Manager	Allows for network-based certificate management.

Security settings

Security settings can be configured using Security Manager. To open Security Manager, select **Security** and then select **Security** in Control Panel.

See the following sections for more information about the different tabs in Security Manager.

- Local Accounts on page 66
- Encryption on page 66
- Options on page 67

Local Accounts

The Local Accounts tab can be used to change the local root and user account passwords or to disable authentication using those accounts.

⚠ CAUTION: Disabling the root and/or user accounts might leave your system in an unusable state unless Active Directory authentication is enabled. For example, if the root account is disabled, you will only be able to change to administrator mode using domain credentials of an administrator. However, disabling the local accounts might improve security when Active Directory authentication is enabled because you no longer have to maintain and update a shared secret such as the thin client's root password.

If Active Directory authentication has been used and there is any cached data for domain users on the thin client, you can also delete the user's cached data from this tab.

NOTE: If the user logged in using a domain account, they cannot delete their own account's data because it would leave the system in an indeterminate state.

Encryption

Active Directory credentials and other secrets can be hashed for functions like screen-unlock and/or encrypted and stored on the system for single sign-on.

The hash algorithm for creating a password's hash can be selected from this menu. The default, scrypt, is a well-accepted key derivation function. Argon2, another key derivation function is also available, as well as conventional hashes SHA-256 and SHA-512. The advantage of a key derivation function is that it is computationally expensive to compute a rainbow table that matches plain-text passwords to precomputed hash values, whereas conventional hashes are meant to execute as fast as possible. All hashes are stored with 128 or more bits of random salt which changes each time the password hash is computed and stored.

Encrypted passwords are used in situations where they can be reversed and supplied to connections when they start (single sign-on). The encryption algorithm can be selected here from a wide variety supported by OpenSSL. Unless there is a good reason to select a different value, HP recommends using the default encryption algorithm, which is generally regarded as a modern, secure algorithm by the security community. The number of salt bits and key bits will vary from one algorithm to another and you can get details by pressing the info button next to the algorithm selector. Encryption keys are unique per thin client and are stored in a place that only administrators can read. Furthermore, only certain authorized applications on the system can do decryption.

Both hashes and encrypted secrets can be set with a time-to-live. If the amount of time between when the secret was hashed or encrypted and the time when it is used or decrypted exceeds the time-to-live, the hash-match or decryption will fail.

By default, the single sign-on password is usable for only one day, but any passwords stored with connection or network settings can be used indefinitely.

Options

Local user must log in: If this option is selected when Active Directory authentication is disabled, the login screen still appears at startup and logout. In this situation, the local user or root credentials must be used to gain access to the system.

Enable secret peek: If enabled, most password and secret entry fields on the system display a small eyeball icon on the right side. When that eyeball icon is selected by pressing and holding down the left mouse button, the secret is displayed in plain text as long as the mouse button is held down. As soon as the button is released, the secret is again obscured.

Use domain text entry: If enabled, a separate Domain input field is provided for the domain name where applicable. If disabled, the domain is determined by the value entered in the User field instead. For instance, if the User field contains "mike@mycorp", the domain is assumed to be "mycorp". If the user field is "graycorp\mary", the domain is assumed to be "graycorp".

Allow administrators to override screen lock: If enabled, you can override a locked screen and return it to the login screen or ThinPro desktop, just as if the user had manually logged out of the thin client.

Certificates

This section describes information about using certificates.



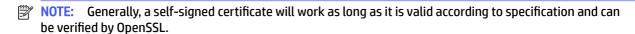
Certificate Manager

To open Certificate Manager:

Select Security and then select Certificates in Control Panel.

Use Certificate Manager to manually install a certificate from a certificate authority (CA). This action copies the certificate to the user's local certificate store (/usr/local/share/ca-certificates) and configures OpenSSL to use the certificate for connection verification.

If desired, use Profile Editor to attach the certificate to a profile, as described in <u>Adding certificates to a client</u> profile on page 87.



SCEP Manager

To open the SCEP Manager:

Select Security and then select SCEP Manager in Control Panel.

Use the SCEP Manager when you need to enroll or renew client-side certificates from a CA.

During an enrollment or renewal, the SCEP Manager generates the thin client's private key and certificate request, and then it sends the request to the CA on the SCEP server. When the CA issues the certificate, the certificate is returned and placed in the thin client's certificate store. OpenSSL uses the certificate for connection verification.

NOTE: Before enrollment, make sure that the SCEP server is configured properly.

Use the **Identifying** tab of the SCEP Manager to enter information about the user, if desired.

NOTE: The Common Name is required and is the Fully Qualified Domain Name (FQDN) of the thin client by default. The other information is all optional. The Country or Region is entered as two letters, such as US for the United States and CN for China.

Use the **Servers** tab of the SCEP Manager to add SCEP servers and enroll or renew certificates.

tip: When entering a new SCEP server, save the server information first, and then use the **Settings** button to go back and do an enrollment.

Manageability

This section describes the Manageability configuration.

Table 9-9

Menu option	Description
Active Directory	For more information, see <u>Active Directory configuration on page</u> <u>68</u> .
Automatic Update	Lets you configure the Automatic Update server manually.
	For more information, see <u>HP Smart Client Services on page 81</u> .
Easy Update	Launches HP Easy Tools.
	For more information, see the user guide for HP Easy Tools.
HPDM Agent	Lets you configure the HP Device Manager (HPDM) Agent.
	For more information, see the Administrator Guide for HPDM.
HPCEM Agent	Lets you configure the HP Cloud Endpoint Manager (HPCEM) Agent.
	For more information, see the Administrator Guide for HPCEM.
SSHD Manager	Enables access through a secure shell.
ThinState	HP ThinState lets you make a copy of or restore the entire operating system image or just its configuration settings.
	For more information, see <u>HP ThinState on page 69</u> .
VNC Shadow	Lets you configure VNC Shadowing options.
	For more information, see <u>VNC Shadowing on page 73</u> .

Active Directory configuration

Status tab

This control lets you activate or deactivate authentication against a domain, joining the domain, and various domain-related options.

After you make a change to domain parameters on the Status tab, the page shows a pending action and you must select **Apply** to make that action happen. Joining or unjoining the domain requires credentials with permissions to perform that operation. After enabling authentication or joining the domain, some of the sub-parameters might be marked as read-only because it is not possible to change them at that point in

time. Instead, you must unjoin or disable authentication altogether and then apply the changes. Then you can re-enable authentication or join with altered sub-parameters.

Table 9-10 Status tab

Option	Description
Domain name	If the thin client can determine the domain name using DHCP options, it will be displayed here. Otherwise you will have to enter the fully-qualified domain name manually.
Authenticate against domain	When enabled, domain credentials can be used, as outlined in the Active Directory Integration section of this guide.
Require thin client login	This is on by default, and it causes the system to boot up into the domain login screen. If disabled, domain credentials can still be used to switch to administrator mode or to override a locked screen, but single sign-on will not be available.
Workgroup	Usually this is auto-detected from information provided by network servers, but you can use this as a manual override if you have an unusual network topology.
Domain controllers	These are usually detected using DNS lookups, but you can specify them manually if your network is not supplying that information.
Join the thin client to the domain	As explained in the chapter on Active Directory Integration, this option lets you formally add the thin client to the Active Directory's databases.
Organizational Unit (OU)	The thin client is usually added to the "Computers" OU of the database, but you can manually enter a different value here if your database schema demands it.
Dynamic DNS	If enabled, the thin client will try to update the DNS server whenever its IP-address/hostname association changes.

Options tab

This section describes the Options within the Options tab.

Table 9-11

Option	Description
Enable single sign-on	If enabled, a password supplied at login is encrypted and saved on the system. When a connection starts with SSO credentials configured, it can decrypt the password and pass it to the connection so that it can be used for remote login.
Domain login group	If enabled, login is restricted to users in the listed domain group.
Domain admin group	If enabled, escalation to administrator mode and screen-lock override is limited to members of the listed domain group.
Enable cached domain login	If enabled, a hash of the user's password is saved on the system and can be used for login even when the Active Directory server is inaccessible.
Retain user preferences at logout	If this option is enabled, any setting changes made by a domain user are stored in a place where those settings are applied only to that user. If this option is disabled, any such user-specific changes are discarded when the user logs out.
Allow domain password changes	If enabled, expired passwords result in a prompt that allows the user to update their password, and they can manually update their password using the user icon on the taskbar.

HP ThinState

HP ThinState allows you to capture and deploy an HP ThinPro image or configuration (profile) to another thin client of compatible model and hardware.

Managing an HP ThinPro image

Capturing an HP ThinPro image to an FTP server

To capture an HP ThinPro image to an FTP server:

- IMPORTANT: The directory on the FTP server where you intend to save the captured image must already exist before initiating the capture.
 - 1. Select Management > ThinState in Control Panel.
 - 2. Select **the HP ThinPro image**, and then select **Next**.
 - 3. Select make a copy of the HP ThinPro image, and then select Next.
 - 4. Select **a FTP server**, and then select **Next**.
 - Enter the FTP server information in the fields.
 - NOTE: The name of the image file is set by default to be the thin client's hostname.

Select **Compress the image** if you want to compress the captured image.

- NOTE: The HP ThinPro image file is a simple disk dump. The uncompressed size is about 1 GB, and a compressed image without add-ons is approximately 500 MB.
- Select Finish.

When the image capture begins, all applications stop and a new window appears showing the progress. If a problem occurs, select **Details** for information. The desktop reappears after the capture is complete.

Deploying an HP ThinPro image using FTP or HTTP

To deploy an HP ThinPro image using FTP or HTTP:

- IMPORTANT: If you stop a deployment before it is finished, the previous image is not restored and the contents of the USB flash drive of the thin client will be corrupted.
 - Select Management > ThinState in Control Panel.
 - Select the HP ThinPro image, and then select Next.
 - Select restore an HP ThinPro image, and then select Next.
 - Select either the FTP or HTTP protocol, and then enter the server information in the fields.
 - NOTE: The Username and Password fields are not required if you use the HTTP protocol.
 - 5. Select **Retain HP ThinPro Configuration** if you want to preserve all previously configured settings.
 - 6. Select Finish.

When the image deployment begins, all applications stop and a new window appears showing the progress. If a problem occurs, select **Details** for information. The desktop reappears after the deployment is complete.

NOTE: An MD5sum check is done only if the MD5 file exists on the server.

Capturing an HP ThinPro image to a USB flash drive

To capture an HP ThinPro image to USB flash drive:

- IMPORTANT: Back up any data on the USB flash drive before you begin. HP ThinState automatically formats the USB flash drive to create a bootable USB flash drive. This process erases all data currently on the USB flash drive.
 - 1. Select Management > ThinState in Control Panel.
 - 2. Select **the HP ThinPro image**, and then select **Next**.
 - 3. Select make a copy of the HP ThinPro image, and then select Next.
 - 4. Select **create a bootable USB flash drive**, and then select **Next**.

The thin client restarts and then prompts you to enter a USB flash drive.

- 5. Insert a USB flash drive into a USB port on the thin client.
- Select the USB flash drive, and then select Finish.

A new window displays the progress. If a problem occurs, select **Details** for information. The desktop reappears after the capture is complete.

Deploying an HP ThinPro image with a USB flash drive

To deploy an HP ThinPro image with a USB flash drive:

- **IMPORTANT:** If you stop a deployment before it is finished, the previous image is not restored and the contents of the USB flash drive of the thin client will be corrupted. In this state, the thin client must be reimaged using a USB flash drive.
 - 1. Turn off the target thin client.
 - Insert the USB flash drive.
 - 3. Turn on the thin client.
- NOTE: The screen remains black for 10-15 seconds while the thin client detects and boots from the USB flash drive. If the thin client fails to boot from the USB flash drive, try unplugging all other USB devices and repeat the procedure.

Managing a client profile

A client profile contains the connections, settings, and customizations that you configured using Connection Manager and Control Panel. A profile is saved in a configuration file that is specific to the version of HP ThinPro in which it was created.

NOTE: A client profile can also be preconfigured and deployed using Profile Editor and Automatic Update (see Profile Editor on page 85 and HP Smart Client Services on page 81 for more information).

Saving a client profile to an FTP server

To save a client profile to an FTP server:

IMPORTANT: The directory on the FTP server where you intend to save the profile must already exist before initiating the save.

- 1. Select Management > ThinState in Control Panel.
- 2. Select **the HP ThinPro configuration**, and then select **Next**.
- 3. Select **save the configuration**, and then select **Next**.
- 4. Select **on a FTP server**, and then select **Next**.
- 5. Enter the FTP server information in the fields.
- 6. Select Finish.

Restoring a client profile using FTP or HTTP

To restore a client profile using FTP or HTTP:

- Select Management > ThinState in Control Panel.
- 2. Select the HP ThinPro configuration, and then select Next.
- 3. Select restore a configuration, and then select Next.
- Select on a remote server, and then select Next.
- 5. Select either the FTP or HTTP protocol, and then type the server information in the fields.
- NOTE: The **Username** and **Password** fields are not required if you are using the HTTP protocol.
- 6. Select Finish.

Saving a client profile to a USB flash drive

To save a client profile to a USB flash drive:

- 1. Insert a USB flash drive into a USB port on the thin client.
- Select Management > ThinState in Control Panel.
- Select the HP ThinPro configuration, and then select Next.
- 4. Select **save the configuration**, and then select **Next**.
- 5. Select **on a USB key**, and then select **Next**.
- 6. Select the USB flash drive.
- Select Browse.
- 8. Navigate to the desired location on the USB flash drive and assign a file name to the profile.
- 9. Select Save.
- 10. Select Finish.

Restoring a client profile from a USB flash drive

To restore a client profile from a USB flash drive:

- 1. Insert the USB flash drive containing the profile into a USB port on the target thin client.
- Select Management > ThinState in Control Panel.

- Select **the HP ThinPro configuration**, and then select **Next**. 3.
- Select **restore a configuration**, and then select **Next**. 4.
- Select **on a USB key**, and then select **Next**. 5.
- Select the USB key. 6.
- 7. Select **Browse**.
- Double-click the desired configuration file on the USB key.
- 9. Select Finish.

VNC Shadowing

To access the VNC Shadow tool:

Virtual Network Computing (VNC) is a remote desktop protocol that allows you to see the desktop of a remote computer and control it with your local mouse and keyboard.

To increase security, HP recommends leaving VNC disabled unless it is needed for remote diagnosis. Then, disable VNC when remote access to the thin client is no longer necessary.

Select Manageability and then select VNC Shadow in Control Panel.



NOTE: You must restart the thin client before any changes to the VNC Shadowing options will take effect.

The following table describes the options available in the VNC Shadow tool.

Table 9-12 VNC Shadowing

Option	Description
Enable VNC Shadow	Enables VNC Shadowing.
VNC Read Only	Makes the VNC session read-only.
VNC Use Password	Makes a password required when accessing the thin client using VNC. Select Set Password to set the password.
Show "Stop Shadowing" Button	If enabled, a Stop Shadowing button shows in the top left corner of the remote system. It stops VNC shadowing when pressed.
VNC Allow Loopback Only	If enabled, you can connect to the VNC server only from this thin client that is identified by the loopback address.
VNC Notify User to Allow Refuse	Enables a notification dialog on the remote system that informs the remote user when someone is attempting to connect using VNC. The user can refuse either allow or refuse access.
Automatically close the notification after (seconds)	Closes the User Notification Message after x seconds.
User Notification Message	Allows you to display a message in the notification dialog to the remote user.
Refuse connections in default	If enabled, the VNC connection will be refused by default when the timer expires.
Re-set VNC server right now	Resets the VNC server after applying the new settings.

SNMP

SNMP is a network protocol for collecting and organizing information about managed devices on networks and for modifying that information to change device behavior.

Three versions of SNMP have been developed. SNMPv1 is the original version, but SNMPv2c and SNMPv3 are more widely used. HP daemon supports all versions of SNMP protocols.

SNMP daemon behavior is defined by /etc/snmp/snmpd.conf. snmpd.conf, which supports many options. ThinPro's GUI offers limited support for these options, which might be useful in basic cases. You must provide your own snmpd configuration file if ThinPro GUI does not meet your needs. You must edit the /etc/snmp/snmpd.conf manually. You must also enable root/snmp/agentBehaviour/usePrivateConfFile, or the next apply will overwrite your configuration changes.

NOTE: SNMP is a highly extensible and customizable protocol. ThinPro provides a simple GUI tool to configure SNMP agent on ThinPro. Users can configure the SNMP agent that allows basic SNMP queries about the device. Users are encouraged to configure advanced SNMP features, for example, Extending private OID and Using SNMPv3.

Configuration file for the SNMP agent is /etc/snmp/snmpd.conf on ThinPro. See the man page of snmpd.conf(5) for details about configuring SNMP agent.

Enabling SNMP with Private Configuration File

You can enable SNMP with a Private Configuration File.

- 1. Select Manageability > SNMP in Control Panel.
- 2. Select **SNMP Enable** to enable SNMP agent on ThinPro.
- 3. Select **Use Private Configuration File**.
- 4. Copy the private configuration file to /etc/snmp/snmpd.conf.
- 5. Select **Apply** to start SNMP agent.

Enabling SNMP with Community List

You can enable SNMP with Community List.

- Select Manageability > SNMP in Control Panel.
- 2. Select **SNMP Enable** to enable SNMP agent on ThinPro.
- 3. Deselect **Use Private Configuration File** if it is selected.
- Select Add/Edit/Delete community to change SNMP v1/v2c communities in Community List, three attributes of a community can be configured.
 - Enter name of the community list in the field.
 - Select Permission to be Read-Only or Read-Write.
 - Enter Accessible OID of the community list in the field.
- Select Apply to start SNMP agent.

Disabling SNMP

Follow the instructions to disable SNMP.

- Select Manageability > SNMP in Control Panel.
- 2. Clear **SNMP Enable** to disable SNMP agent on ThinPro.
- 3. Select **Apply** to stop SNMP agent.

BIOS Capsule Update

ThinPro supports BIOS capsule update. You must get the BIOS package in capsule format, which usually ends with .cab, and then follow this procedure.

- 1. Transfer the BIOS package onto ThinClient.
- 2. Switch to admin mode and launch an xterm.
- 3. Run:
 - a. /usr/sbin/hptc-bios-capsule-update <bios capsule file name>
 - b. reboot -f

Upon restart, the system updates the BIOS.

4. Check your BIOS version in sysinfo or use the dmidecode command to verify the result.

Alternatively, you can call hptc-bios-flash and provide a bios capsule file. Hptc-bios-flash can detect the file type and invoke hptc-bios-capsule-update automatically.

NOTE: Not all ThinClient models and BIOS support capsule update. Switch to the standard BIOS update method if BIOS capsule update fails.

Input Devices

This section describes the input devices.

Table 9-13

Menu option	Description
Keyboard	Lets you change the keyboard layout to accommodate the language used by the primary keyboard and the secondary keyboard.
Keyboard Shortcuts	Lets you create, modify, and delete keyboard shortcuts.
Mouse	Lets you configure the mouse speed and whether mouse input is right-handed or left-handed.
	On thin clients with a TouchPad, this menu option also lets you disable or enable the TouchPad.
Touch Screen	Lets you configure touch screen options.

Table 9-13 (continued)

Menu option	Description
Ibus	Lets you configure lbus (Intelligent Input Bus) for multilingual input.
	lbus is not enabled by default. To enable lbus:
	Control Panel>Input Devices>lbus Input Method>Start IBUS on boot
	The Default Ibus configuration file can be modified or restored to factory settings from the Control Panel as well.
	After reboot, the Ibus tray icon appears. Select the icon to choose language. Right-click the icon for more configuration options.
	NOTE: Ibus in ThinPro is preloaded with Chinese, Japanese, and Korean languages. To add additional languages:
	1. Right-click the lbus system tray icon.
	2. Select the Input Method tab.
	3. Select Add.

Hardware

This section describes the Hardware configuration.

Table 9-14

Menu option	Description
Display	Lets you configure and test display options.
	For more information, see <u>Display management on page 76</u> .
Sound	Lets you control the playback, input devices, and input audio levels.
USB Manager	Lets you configure the redirection options for USB devices.
	For more information, see Redirecting USB devices on page 77.
Serial Manager	Lets you configure serial devices.
Printers	Lets you set up local and network printers. Local printers can be shared across the network.
	For more information, see <u>Configuring printers on page 77</u> .
Bluetooth	Lets you set up Bluetooth services and attach devices.
	For more information, see <u>Bluetooth on page 77</u> .

Display management

Display management allows you to configure screen settings and apply these changes in session. To open display management:

Control Panel>Hardware>Display Management.

Redirecting USB devices

To redirect USB devices:

- 1. In Control Panel, select **Hardware**, and then select **USB Manager**.
- 2. On the **Protocol** page, select a remote protocol.

If the setting is **Local**, you can also specify the options **allow devices to be mounted** and **mount devices read-only**.

- 3. On the **Devices** page, you can enable or disable redirection for individual devices if necessary.
- 4. On the Classes page, you can select specific device classes to be redirected to remote sessions.
- 5. When you are finished, select **Apply**.

Configuring printers

To configure a printer:

- 1. Select **Hardware** and then select **Printers** in Control Panel.
- 2. In the **Printing** dialog, select **Add** .
- 3. In the **New Printer** dialog, select the printer to configure, and then select **Forward**.
- NOTE: If you select a serial printer, be sure to input the correct settings on the right side of the dialog, or the printer might not function correctly.
- Select the make of the printer. If you are unsure, select the Generic (recommended) option, and then select Forward.
- 5. Select the model of and driver for the printer, and then select **Forward**.
- NOTE: If you are unsure of the printer model or which driver to use, or if the model of your printer is not listed, select **Back** and try using the **Generic (recommended)** option for the make of the printer.

If using the **Generic (recommended)** make, be sure to select **text-only (recommended)** for the model and **Generic text-only printer [en] (recommended)** for the driver.

- 6. Fill in optional information about the printer, such as its name and location.
- NOTE: HP recommends that you type the correct driver name into the Windows Driver box. The driver must also be installed on the Windows server for the printer to work properly. If a driver is not specified, a generic postscript driver is used. Using a specific Windows driver might enable more printer functions.
- Select Apply, and then print a test page if desired.

Repeat this process to configure additional printers if necessary.

TIP: The most common problem is that the wrong driver is being used for the printer. To change the driver, right-click the printer and select **Properties**, and then change the make and model.

Bluetooth

The Bluetooth service is disabled by default. Enable Bluetooth allows the systemd service (Bluez) to start at startup. See /etc/system/bluetooth.service.d/10-bluetooth-enabled.conf.

After you enable the service, you can access Bluetooth from the icon visible in the system tray of the taskbar.

Decide whether the users can:

- See the Bluetooth icon in the system tray.
- Turn the Bluetooth interface on or off.
- See the list of connected devices.
- Access the device scanner. You can use the scanner to add or remove a device. Users can also remove devices with the scanner.

You can disable the notification messages from the system tray icon by setting the timeout to zero.

ThinPro works well with most audio headsets, mice, and keyboards. You need a PIN to pair with a keyboard. You might have to contact HP support to pair with other devices.



NOTE: The devices returned by the device scanner are filtered according to the registry settings root/ Bluetooth/SystrayApp/DeviceFilter/majorClass and root/Bluetooth/SystrayApp/DeviceFilter/services.

Appearance

This sections describes the Appearance configuration.

Table 9-15

Menu option	Description
Background Manager	Lets you configure the background theme and dynamically display system information (such as the hostname, IP address, hardware model, and MAC address of the thin client) in the background.
	For more information, see the HP ThinPro white paper <i>Login Screen Customization</i> (available in English only).
Customization Center	Lets you do the following:
	Switch between the ThinPro and Smart Zero configurations
	Configure desktop and taskbar options
	 Select which connection types and Control Panel items end users have access to
	For more information, see <u>Customization Center on page 78</u> .
Language	Lets you display the HP ThinPro interface in a different language.

Customization Center

Follow the instructions here to open Customization Center.

Select Appearance and then select Customization Center in Control Panel.

The button at the top of the **Desktop** page can be used to switch between the ThinPro and Smart Zero configurations. See Choosing an OS configuration on page 1 for more information about the differences between the two configurations.



NOTE: When switching from ThinPro to Smart Zero, if you have configured a single connection, that connection is used automatically as the Smart Zero connection. If you have configured multiple connections, you are prompted to select the connection to use.

Before switching to Smart Zero mode, the domain authentication function on the thin client should be disabled. Domain authentication and Smart Zero mode are incompatible.

The following table describes the rest of the options available on the **Desktop** page.

Table 9-16 Customization options

Option	Description
Launch the Connection Manager at startup	When enabled, Connection Manager launches automatically at system startup.
Enable right-click menu	Disable this option to disable the context menu that appears when you right-click the desktop
Enable X host access control security	When enabled, only the systems listed in the XHost Access Control List area are allowed to remotely control the thin client.
Enable USB Update	Enables updates to be installed from a USB flash drive. See <u>USB updates on page 93</u> for more information.
Authenticate USB Update	Disable this option to allow end users to install updates via USB.
Allow user to switch to administrator mode	Disable this option to remove the Administrator/User Mode Switch option from Control Panel in user mode.
Time before cancelling administrator mode	Specifies the idle timeout (in minutes) after which administrator mode will be terminated. If set to 0 or negative, administrator mode will never be automatically terminated.

Use the Connections and Applications pages to select which connection types and Control Panel applications are available in user mode.

Use the **Taskbar** page to configure the taskbar.

10 System Information

In the Start menu, select **System Information** to view system, network, and software information. The following table describes the information that is displayed on each panel.

Table 10-1 System Information

Panel	Description
General	Displays information about the BIOS, operating system, CPU, and memory.
Network	Displays information about the network interface, gateway, and DNS settings.
Net Tools	Provides the following tools for monitoring and troubleshooting purposes:
	 Ping: Specify an IP address of another device on the network to attempt to establish contact.
	 DNS Lookup: Use this tool to resolve a domain name into an IP address.
	• Trace Route : Use this tool to track the path that a network packet takes from one device to another.
Software Information	Displays a list of installed add-ons on the Service Packs tab and software version information on the Software installed tab.
	TIP: You can also access the Administrator Guide (this document) from this screen.
Software License	Displays the EULA for the HP ThinPro operating system and, if not auto-licensed, information about ThinPro licenses on the system.
System Logs	Displays the following logs:
	Authorization and Security
	Connection Manager
	DHCP Leases
	General System Log
	• Kernel
	Network Manager
	Smart Client Services
	X Server
	 OneSign
	In administrator mode, the debug level can be changed to display additional information that might be requested by HP support for troubleshooting purposes.
	Select Diagnostic to save a diagnostic file. For more information, see <u>Using system diagnostics to troubleshoot on page 91</u> .



NOTE: See SystemInfo on page 178 for information about registry keys that can be used to hide the System Information screens.

11 HP Smart Client Services

HP Smart Client Services is a set of server-side tools that enable you to configure client profiles that can be distributed to large numbers of thin clients. This function is called Automatic Update.

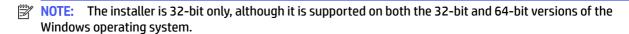
HP ThinPro detects an Automatic Update server upon startup and configures settings accordingly. This feature simplifies device installation and maintenance.

To obtain HP Smart Client Services, go to https://ftp.hp.com/pub/tcdebian/SmartClientServices/.

Supported operating systems

HP Smart Client Services supports the following operating systems:

- Windows Server® 2019
- Windows Server 2016
- Windows 10
- Windows Server 2012 R2
- Windows Server 2012



Prerequisites for HP Smart Client Services

Before installing HP Smart Client Services, verify the configuration and installation status of the following components:

- Internet Information Services (IIS)
- .NET Framework 3.5

For information about installing or enabling these components on the operating system that you are using for the server, go to http://www.microsoft.com.

Viewing the Automatic Update website

Instructions to view the Automatic Update website.

- On the server desktop, select Start > Control Panel, and then select Administrative Tools.
- Double-click Internet Information Services (IIS) Manager.
- In the left pane of the IIS Manager, expand the following items:

"Server name" > Sites > HP Automatic Update > auto-update

NOTE: The physical location where the Automatic Update files are stored is as follows:

Creating an Automatic Update profile

Automatic Update uses profiles to deploy a configuration to thin clients.

By default, when you create a profile using Profile Editor, the tool lets you save it to the following folder:

```
C:\Program Files (x86)\HP\HP Smart Client Service\auto-
update\PersistentProfile\
```

You can also export an existing profile from a thin client using HP ThinState and copy the profile to this location.

When searching for updates, HP ThinPro looks for this folder and applies the profile saved there. This ensures that all thin clients use the same configuration.

For more information on using Profile Editor see Profile Editor on page 85.

MAC-address-specific profiles

Automatic Update profiles can be created for a single MAC address. This can be useful when some thin clients need a different configuration.

Profiles for a single MAC address must be stored on the Automatic Update server, in the following folder:

```
C:\Program Files (x86)\HP\HP Smart Client Service\autoupdate\PersistentProfile\MAC\
```

When searching for updates, HP ThinPro looks for the generic profile first, and then a MAC-address-based profile. These profiles are merged and installed together on the thin client. The MAC-address-based profile takes precedence; that is, if the same registry key has a different value in both files, the value in the MAC-address-based profile is used.

This ensures that a shared configuration can be provided to all thin clients, but a specific customization can be added, if necessary.

This section describes how to create an Automatic Update profile for a single MAC address.

- 1. Obtain the MAC address of the thin client using the system info. For example, the following steps use the MAC address <code>00fcab8522ac</code>.
- Use Profile Editor to create or modify a client profile (see <u>Profile Editor on page 85</u>) until you are ready to save the client profile.
- In Profile Editor, select the Finish link in the left-hand pane to access the Current profile pane.
- 4. Select **Save profile as** to save the client profile as the following:

```
C:\Program Files (x86)\HP\HP Smart Client Service\auto-
update\PersistentProfile\MAC\00fcab8522ac.xml
```

- 5. Select the **Finish** button in the **Current profile** pane to exit Profile Editor.
- 6. Restart the thin client that uses the specified MAC address to initiate the Automatic Update process.

Updating thin clients

Using the broadcast update method

To do a broadcast update, plug the thin client into the same network as the update server. A broadcast update relies on HP Smart Client Services, which works with IIS to automatically push updates to the thin client.

- NOTE: Broadcast updates work only if the thin client is on the same subnet as the server.
- TIP: To verify that the broadcast updates are working, run Profile Editor and make some changes. Connect the thin client and verify that it has downloaded the new profile. If it has not, see <u>Troubleshooting on page</u> 90.

Using the DHCP tag update method

On the Windows Server systems, DHCP tagging enables a thin client to update. Use this method to update specific thin clients; however, if you have only one or two clients to update, consider using the manual update method instead. Otherwise, HP recommends the broadcast update method.

Example of performing DHCP tagging

The example in this section shows how to perform DHCP tagging on a Windows 2008 R2 Server.

- **NOTE:** To use DHCP tagging, see your DHCP server documentation.
 - 1. On the server desktop, select **Start > Administrative Tools > DHCP**.
 - 2. In the left pane of the DHCP screen, select the domain where the thin clients are connected.
 - In the right pane of the DHCP screen, expand and right-click IPv4, and then select Set Predefined Options.
 - In the Predefined Options and Values dialog, select Add.
 - 5. In the **Option Type** box, configure the options as described in the following table.

Table 11-1

Field	Entry
Name	Enter auto-update.
Data Type	Select String .
Code	Enter 137.
Description	Enter HP Automatic Update.

- 6. Select OK.
- 7. In the Predefined Options and Values dialog, under Value > String, enter the update server address in the format of the following example:

http://auto-update.dominio.com:18287/auto-update

8. To complete the setup, select **OK**. DHCP tagging is now ready to update specific thin clients.

Using the DNS alias update method

During system startup, Automatic Update attempts to resolve the DNS alias **auto-update**. If that host name resolves, it attempts to check for updates at **http://auto-update**:18287. This update method enables thin clients to access a single update server across the entire domain, thus simplifying management for deployments with many subnets and DHCP servers.

To configure the DNS alias update method:

Change the hostname of the server hosting HP Smart Client Services to auto-update or create a DNS alias of auto-update for that server.

Using the manual update method

Use the manual update method to connect a thin client to a specific server for an update. Also, use this method if you want to test an update on a single thin client before pushing the update to many thin clients, or if you have specific updates to be installed on only one or two thin clients.

- NOTE: Be sure you specify the hostname of the manual server in the profile that you are updating to.
 Otherwise the settings reset to automatic when downloading the profile. Use **Profile Editor** to modify these settings at root/auto-update.
- NOTE: If multiple thin clients require specific updates, use the DHCP tagging method.

If no update segregation is required, use the broadcast update method.

Performing a manual update

To perform a manual update:

- 1. Select Management > Automatic Update in Control Panel.
- 2. Select Enable manual configuration.
- Set the Protocol as http.
- 4. In the Server field, enter the update server hostname and port in the following format:

<hostname>:18287

5. In the **Path** field, enter the following:

auto-update

- Select Preserve thin client configuration if you want to preserve all previously configured settings.
- 7. Select **OK**, and then the thin client will pull the updates.

12 Profile Editor

HP Smart Client Services contains Profile Editor, which allows administrators to create client profiles and upload them to the Automatic Update server.

TIP: In addition to creating a new client profile, you can edit an existing profile that was exported using HP ThinState.

A client profile contains the connections, settings, and customizations that were configured using Connection Manager and various Control Panel items. A client profile is saved in a configuration file that is specific to the version of HP ThinPro in which it was created.

Opening Profile Editor

To open Profile Editor:

 Select Start, select All Programs, select HP, select HP Automatic Update Server, and then select Profile Editor.

Loading a client profile

The name of the currently-loaded client profile is indicated on the initial screen of Profile Editor.

To load a different client profile:

- At the initial screen of Profile Editor, select the link that displays the name of the currently-loaded client profile.
- 2. Navigate to a client profile, and then select **Open**.

Client profile customization

Selecting the platform for a client profile

Use the **Platform** screen in Profile Editor to do the following:

- Select the desired HP ThinPro image version that is compatible with your hardware
- Choose between ThinPro and Smart Zero
- View installed client kits that provide additional registry settings
- NOTE: Client kits should be placed in the following directory:

C:\Program Files (x86)\HP\HP Smart Client Service\auto-update\Packages

To configure a client profile's platform settings:

- On the Platform screen in Profile Editor, select an OS Build ID that corresponds to the desired image version.
- **IMPORTANT:** Be sure to create a different client profile for each hardware type.
- NOTE: If a client kit is installed, it is displayed automatically in the Client Kits box, and additional registry settings will be available on the Registry screen.
- Set the configuration to either standard (ThinPro) or zero (Smart Zero).
- NOTE: For older image versions, this setting is greyed out and set to zero automatically.

Configuring a default connection for a client profile

To configure a default connection for a client profile:

- On the Connection screen in Profile Editor, choose the desired connection type from the Type drop-down list.
- NOTE: The available connection types differ depending on whether you chose ThinPro or Smart Zero on the Platform screen.
- 2. In the **Server** field, enter the name or IP address of the server.

Modifying the registry settings of a client profile

To change default registry settings for a client profile:

- On the Registry screen in Profile Editor, expand the folders in the Registry settings tree to locate the registry setting you want to change.
- Select the registry key, and then enter the desired value in the Value field.
- NOTE: See Registry keys on page 98 for a comprehensive list and description of registry keys.

Adding files to a client profile

Use the **Files** screen in Profile Editor to add configuration files that will be installed on the thin client automatically when the client profile is installed. This is typically used for the following reasons:

- To add certificates
- To modify device settings when a registry setting for the change is unavailable
- To modify the behavior of the system by inserting custom scripts or modifying existing scripts

You can also specify a symbolic link that points to a file already installed on the thin client. Use this when the file needs to be accessed from more than one directory.

Adding a configuration file and certificates to a client profile

Instructions for adding configuration file and certificates to a client profile.

Adding a configuration file to a client profile

You can add configuration files to a client profile and specify the folder path in which the files are installed.

1. On the Files screen in Profile Editor, select Add a file.

- Select Import File, locate the file to be imported, and then select Open.
- NOTE: Files can also be exported using the **Export File** button, if further details about the file are required.
- 3. In the **Path** field, enter the path where the file will be installed on the thin client.
- 4. In the File details section, set the Owner, Group, and Permissions fields to the appropriate values.
- NOTE: Typically, setting the owner and group as **root** and the permissions as **644** is satisfactory. If a special owner, group, or permissions are required, refer to standard Unix® file permissions for guidelines on changing the file details.
- Select Save to finish adding the configuration file to the client profile.
- NOTE: A file installed as part of a profile will automatically overwrite any existing file on the file system at the destination path. Additionally, a second profile without the file attached will not revert previously attached files. All files that have been installed through profile attachment are permanent and must be reverted manually or through a factory reset.

Adding certificates to a client profile

Client profiles automatically include certificates that are imported to a standard client certificate store.

The following applications are supported:

- VMware Horizon View, Citrix, RDP
- Automatic Update
- HP Smart Client Services
- Web browser stores

To import other certificates to a client profile:

- 1. On the Files screen in Profile Editor, select Add a file.
- 2. Select **Import File**, locate the certificate, and then select **Open**.
- NOTE: The certificate should be formatted as a .pem or .crt file.
- 3. In the **Path** field, set the path to the following:

/usr/local/share/ca-certificates

- 4. Select **Save** to finish adding the certificate to the client profile.
- After installing the client profile, use Certificate Manager to confirm that the certificate was imported properly.

Adding a symbolic link to a client profile

Instructions for adding a symbolic link to a client profile.

- On the Files screen in Profile Editor, select Add a file.
- In the Type drop-down list, select Link.

- In the **Symbolic link details** section, set the **Link** field to the path of the desired file already installed on the thin client.
- Select **Save** to finish adding the symbolic link.

Saving the client profile

Instructions to save the client profile.

- In **Profile Editor**, select **Finish** in the left-hand pane to access the **Current profile** screen.
- Select Save Profile to save to the current client profile, or select Save Profile As to save as a new client profile.
- NOTE: If Save Profile is disabled, your client profile has not changed since the last time it was saved.
- Select the **Finish** button in the **Current profile** screen to exit Profile Editor.

Serial or parallel printer configuration

You can use Profile Editor to set up the serial or parallel printer ports. A USB printer automatically maps when plugged in.

Obtaining the printer settings

Before configuring printer ports, obtain the printer's settings. If available, check the printer's documentation before going further. If it is not available, follow these steps.

- For most printers, press and hold the **Feed** button while turning the device on.
- After a few seconds, release the **Feed** button. This allows the printer to enter a test mode and print the required information.
- -\(\gamma' TIP: You might need to turn the printer off to cancel the Test mode or press **Feed** again to print a diagnostic page.

Setting up printer ports

Instructions for setting up printer ports.

- In Profile Editor, select Registry, and then enable the Show all settings check box.
- Enable printer port mapping for your connection type:
 - Citrix: No action is required.
 - RDP: Navigate to root > ConnectionType > freerdp. Right-click the connections folder, select New connection, and then select **OK**. Set the **portMapping** registry key to 1 to enable printer port mapping.
 - VMware Horizon View: Navigate to **root > ConnectionType > view**. Right-click the **connections** folder, select New connection, and then select OK. Under the xfreerdpOptions folder, set the portMapping registry key to 1 to enable printer port mapping.
- Navigate to root > Serial. Right-click the Serial folder, select New UUID, and then select OK.

4. Under the new directory, set the **baud**, **dataBits**, **flow**, and **parity** values to the ones obtained in <u>Obtaining</u> the printer settings on page 88.

Set the **device** value to the port the printer will be plugged into. For example, the first serial port would be /dev/ttyS0, the second serial port would be /dev/ttyS1, and so on. For USB serial printers, use the format /dev/ttyUSB#, where # is the number of the port, starting with 0.

Installing printers on the server

Instructions for installing printers on the server.

- 1. On the Windows desktop, select **Start > Printers and Faxes**.
- Select Add Printer, and then select Next.
- 3. Select Local Printer attached to this Computer and, if required, deselect Automatically detect and install my Plug and Play printer.
- 4. When completed, select **Next**.
- 5. In the menu, select a port.
- NOTE: The port you need is in the section of ports labeled TS###, where ### is a number between 000–009, 033–044. The appropriate port depends on your hostname and the printer you want to install. For example, with a hostname of hptc001 and a serial printer, select the port with (hptc001:COM1). For a parallel printer, select (hptc001:LPT1). The TS### is assigned by the server, so it will not be the same every time.
- **6.** Select the manufacturer and driver for your printer.
- TIP: If desired, use the driver disc **Windows Update** to install the driver.
- NOTE: For basic or test printing, the **Generic Manufacturer** or **Generic/Text Only** printer usually works.
- 7. If prompted to keep the existing driver and it is known to work, keep it, and then select **Next**.
- 8. Assign a name to the printer. To use it as the default printer, select Yes, and then select Next.
- 9. To share the printer, select **Share name** and assign it a share name. Otherwise, select **Next**.
- 10. On the next page, you may request a test print. HP recommends this because it will verify the printer setup is correct. If it is not set up properly, review the settings and try again.
- NOTE: If the thin client disconnects from the server, the printer will need to be set up again the next time the thin client connects.

13 Troubleshooting

Troubleshooting network connectivity

Instructions to troubleshoot network connectivity.

- 1. Ping a server by completing the following steps:
 - a. Select the System Information button on the taskbar, and then select the **Net Tools** tab.
 - Under Select Tool, select Ping.
 - c. In the **Target Host** box, enter the server address, and then select **Start Process**.

If the ping is successful, the system displays the following output:

```
PING 10.30.8.52 (10.30.8.52) 56(84) bytes of data.

64 bytes from 10.30.8.52:icmp_seq-1 ttl=64 time=0.81 5 ms 64 bytes from 10.30.8.52:icmp seq=2 ttl=64 time=0.735 ms
```

If the ping is unsuccessful, the thin client might be disconnected from the network and experience a long delay with no system output.

- If the thin client does not respond to the ping, complete the following steps:
 - a. Check the network cable and check the network settings in Control Panel.
 - b. Try pinging other servers or thin clients.
 - c. If you can reach other thin clients, verify that you typed the correct server address.
 - **d.** Ping the server using the IP address instead of the domain name or vice-versa.
- 3. Check the system logs by doing the following:
 - Select the System Information button on the taskbar, and then select the System Logs tab.
 - Check for any errors in the logs.
 - c. If there is an error, then the **Server is not set up** notification appears. Verify that the server is set up properly and that HP Smart Client Services is running.

Troubleshooting Citrix password expiration

If users are not being prompted to change expired Citrix passwords, then make sure the XenApp Services site (PNAgent site) has the **Prompt** authentication method set to allow users to change expired passwords. If you allow users to change their passwords by connecting directly to the domain controller, then make sure the time of the thin client is in sync with the domain controller and use the full domain name (for example, domain_name.com) when entering the Citrix login credentials. For more information, see Citrix documentation.

Using system diagnostics to troubleshoot

System diagnostics take a snapshot of the thin client that can be used to help solve issues without physical access to the thin client. This snapshot contains log files from the BIOS information and the processes active at the time the system diagnostics were run.

TIP: You can change the **Debug level** setting in the **System Logs** tab of the **System Information** window to specify the amount of information to be included in the diagnostic report. This information may be requested by HP for troubleshooting. Because the system resets log files when it reboots, be sure to capture logs before a reboot.

For the most useful logs, set the level to capture a high level of detail before reproducing the problem and creating a diagnostic report.

Saving system diagnostic data

Instructions for saving system diagnostic data.

- 1. Insert a USB flash drive into the thin client.
- 2. Select the System Information button on the taskbar, and then select the **System Logs** tab.
- 3. Select **Diagnostic**, and then save the compressed diagnostic file **Diagnostic.tgz** to the USB flash drive.

Uncompressing the system diagnostic files

The system diagnostic file **Diagnostic.tgz** is compressed and will need to be uncompressed before you can view the diagnostic files.

Uncompressing the system diagnostic files on Windows-based systems

SHORT DESCRIPTION

- 1. Download and install a copy of the Windows version of **7-Zip**.
- NOTE: You may obtain a free copy of 7-Zip for Windows at http://www.7-zip.org/download.html.
- Insert the USB flash drive that contains the saved system diagnostic file, and then copy Diagnostic.tgz to the desktop.
- Right-click Diagnostic.tgz and select 7-zip>Extract files.
- 4. Open the newly created folder named **Diagnostic** and repeat step 3 on **Diagnostic.tar**.

Uncompressing the system diagnostic files in Linux- or Unix-based systems

Instructions for uncompressing the system diagnostic files in Linux- or Unix-based systems.

- Insert the USB flash drive that contains the saved system diagnostic file, and then copy Diagnostic.tgz to the home directory.
- Open a terminal and browse to the home directory.
- 3. On the command line, enter tar xvfz Diagnostic.tgz.

Viewing the system diagnostic files

The system diagnostic files are divided into the Commands, /var/log, and /etc folders.

Viewing files in the Commands folder

This table describes the files to look for in the **Commands** folder.

Table 13-1 Files in the Commands folder

File	Description
demidecode.txt	This file contains information on the system BIOS and graphics.
dpkglist.txt	This file lists the packages installed at the time system diagnostics were run.
psef.txt	This file lists the active processes at the time system diagnostics were run.

Viewing files in the /var/log folder

The useful file in the /var/log folder is Xorg.O.log.

Viewing files in the /etc folder

The /etc folder contains the file system at the time the system diagnostics were run.

A USB updates

When USB updates are enabled you can use a USB flash drive to simultaneously install multiple add-ons and certificates, as well as deploy a profile.

For more information on how to enable USB updates see Customization Center on page 78.

USB updates

Follow the instructions here to enable USB updates.

When USB updates are enabled, (see Customization Center on page 61) you can use a USB flash drive to simultaneously install multiple add-ons and certificates, as well as deploy a profile.

- 1. Place the desired files onto a USB flash drive.
- **NOTE:** The files can be placed in the root directory or in subfolders.
- Connect the USB flash drive to the thin client.

Updates are detected automatically and displayed in the **USB Update** dialog, in which you can search and view details about the detected updates.

- Select the check boxes next to the updates you want to install, and then select Install.
- 4. After installation, restart the thin client if prompted.

HP ThinUpdate

HP ThinUpdate allows you to download images and add-ons from HP and create bootable USB flash drives for image deployment. For more information see the *Administrator Guide* for HP ThinUpdate.

BIOS tools (desktop thin clients only) B

There are two kinds of BIOS tools for HP ThinPro:

- BIOS settings tool: Used to retrieve or modify BIOS settings
- BIOS flashing tool: Used to update the BIOS

These tools can be run via an X terminal.

BIOS settings tool

The following table describes the syntax for the BIOS settings tool.



NOTE: Changes do not take effect until the next reboot.

Table B-1

Syntax	Description
hptc-bios-cfg -G <file name=""></file>	Retrieves the current BIOS settings and saves them to the specified file so they can be viewed or modified (CPQSETUP.TXT by default).
hptc-bios-cfg -S <file name=""></file>	Writes the BIOS settings from the specified file (CPQSETUP.TXT by default) to the BIOS.
hptc-bios-cfg -h	Displays a list of options.

BIOS flashing tool

The following table describes the syntax for the BIOS flashing tool.



NOTE: Changes do not take effect until the next reboot.

Table B-2 Syntax for the BIOS flashing tool

Syntax	Description
hptc-bios-flash <image name=""/>	Prepares the system to update the BIOS during the next restart. This command automatically copies the files into the correct location and prompts you to restart the thin client. NOTE: This command requires that the Tool-less update option in the BIOS settings is set to Auto.
hptc-bios-flash -h	Displays a list of options.

C Resizing the flash drive partition

To use all of the available disk space of a flash drive, you have to modify the partition size and expand the file system to take up that additional space. You can complete this task by running the resize-image script using an X terminal.

- NOTE: Resizing the flash drive partition image does not work on encrypted disks.
- IMPORTANT: HP thin clients that ship from the factory with HP ThinPro use the entire flash drive. The image capture methods capture the smallest possible image, allowing images from larger flash drives to be deployed onto smaller flash drives that have enough space for the captured image. Resizing the flash drive partition is no longer necessary for HP thin clients that ship from the factory with HP ThinPro. For thin clients with HP ThinPro that are not using the entire flash drive for any reason, see the following information.
- NOTE: When an image is deployed via HPDM, HPCEM, HP ThinState, or Automatic Update, the file system is automatically resized to use all available space on the flash drive.

The following table describes the syntax for the resize-image script.

Table C-1 Syntax for the resize-image script

Syntax	Description
resize-image	When called with no parameters, the script displays the current size of the partition and the amount of available space on the flash drive. The script prompts you to enter the target partition size and then confirm the change. The change takes effect after the next thin client restart.
	NOTE: You cannot decrease the partition size. The entered value must be larger than the current partition size.
Example: resize-imagesize 1024	Using this syntax, you can specify the target partition size in megabytes (MB) as a parameter and then confirm the change.
resize-imageno-prompt	Using this syntax, the script runs automatically with no user interaction required.
<pre>-or- resize-imageno-promptsize <size in="" mb=""></size></pre>	If no specific size is given as a parameter simultaneously, the partition size is increased to the maximum size.
Example: resize-imageno-promptsize 1024	TIP: This noninteractive mode is useful for scripting and performing this operation from a remote administration tool such as HPDM and HPCEM.

D mclient command

The command client to manticore daemon is mclient, which maintains the configuration registry and applies new settings. You need to be root in order to use mclient command in most cases. You can get help on mclient if you run mclient without any argument.

ThinPro 7.2 currently supports the following commands:

```
# mclient
MANTICORE Registry command line frontend
mclient [--quiet] <command>
mclient commands :
  wait-daemon [timeout seconds]
  set <regkey> <regvalue> [regparam]
 get <regkey> [regparam] | [regparam lang]
  gettree <regkey> [regparam] | [regparam lang]
  contains <regkey>
  commit [regkey]
  [--sync] apply [regkey]
  rollback [regkey]
  watch <regkeylist> [timeout]
  changes
  create <regkey> [keytype]
  delete <regkey>
  import <file>
  export <rootDir> <file>
mclient args :
 regkey : string
 regkeylist : string space separated
  requalue : string
 regparam : string (value|type|regexp|description)
 timeout : int
  keytype : string (string|rc4|uuid|char|ipv4|ipv6|ipaddr|number|float|
date|bool|crypt|encrypted)
```

Furthermore, you can get bash auto-completion capability after running following command on ThinPro:

```
# . /etc/bash completion.d/mclient
```

Modifications to the configuration registry are carried out in three steps:

- 1. Add, modify, or delete the value.
- 2. Issue the mclient command to commit the change and save the changes to the disk.
- 3. Issue the mclient apply command to apply the changes.
- NOTE: HP recommends to perform a complete restart so that the new settings are carried out.

Other useful mclient usages include:

You can use mclient export and mclient import to export or import a branch of the registry. These commands are useful if you need to export a connection or Wi-Fi setting but not the whole configuration.

For example, if you have configured a Wi-Fi connection on ThinPro, you can find out the registry branch where this configuration is saved:

```
# mclient -q get root/Network/Wireless/Profiles
root/Network/Wireless/Profiles/{de0ff9cb-7f9d-48ba-9ac3-89d28cfad469}#
mclient -q get root/Network/Wireless/Profiles/
{de0ff9cb-7f9d-48ba-9ac3-89d28cfad469}/SSID
NETGEAR89-5G
```



NOTE: {de0ff9cb-7f9d-48ba-9ac3-89d28cfad469} is the sample UUID found on the test system. You might have a different UUID for your connection configuration.

Then you can export the config using this command:

```
# mclient export root/Network/Wireless/Profiles/
{de0ff9cb-7f9d-48ba-9ac3-89d28cfad469} wifi.xml
```

The result wifi.xml can be imported to other machines later.

The tool /usr/bin/mencrypt can be convenient to set the value of the registry keys with an encrypted type, for example:

```
# mclient set root/Network/
Wireless/Profiles/{ de0ff9cb-7f9d-48ba-9ac3-89d28cfad469}/Security/PSK/
PreSharedKey "$(echo -n 'my shared key' | mencrypt)"
# mclient commit root/Network
# mclient apply root/Network
```

E Registry keys

HP ThinPro registry keys are grouped into folders and can be modified in several different ways.

- Using a _File and Registry task in HPDM and HPCEM
- Using the Registry Editor component of Profile Editor and then deploying the new profile
- Using Registry Editor in the HP ThinPro user interface, which is available in the Tools menu in administrator mode

Each top-level section in this appendix corresponds to one of the top-level registry folders.



NOTE: Some registry keys might apply to ThinPro or Smart Zero only.

Audio

Audio registry keys.

Table E-1 Audio registry keys

Registry key	Description
root/Audio/AdjustSoundPath	Sets the full path to the sound played when the playback volume is changed via the volume controls.
root/Audio/JackRetask	This registry key applies only to thin clients that have repurposable jacks.
	For the t730's lower front port:
	• 0/1: No change / headphone
	2: Microphone
	For the t630's back port:
	0: No change / line in
	• 1: Headphone / line out
	You must restart the thin client after changing these settings.
root/Audio/OutputMute	If set to 1, the internal speaker and headphone jack are muted.
root/Audio/OutputScale	Sets the volume scale for the internal speaker and headphone jack, ranging from 1 to 400.
root/Audio/OutputScaleAuto	If set to 1, the OutputScale value will be set automatically based on the thin client model.
root/Audio/OutputVolume	Sets the volume for the internal speaker and headphone jack, ranging from 1 to 100.
root/Audio/PlaybackDevice	Sets the device to use for playback.

Table E-1 Audio registry keys (continued)

Registry key	Description
root/Audio/PulseBuffer	The recommended range for this value is between 1024 and 8192. A value that is too high might cause jittering in playback, while a value that is too low might cause the thin client to crash.
root/Audio/RecordDevice	Sets the device to use for capture.
root/Audio/RecordMute	If set to 1, the microphone jack is muted.
root/Audio/RecordScale	Sets the volume scale for the microphone jack, ranging from 1 to 400.
root/Audio/RecordScaleAuto	If set to 1, the RecordScale value will be set automatically based on the thin client model.
root/Audio/RecordVolume	Sets the volume for the microphone jack, ranging from 1 to 100.
root/Audio/VisibleInSystray	If set to 1, a speaker icon is visible in the system tray.
root/Audio/shortcutPassThrough	Defines the apps that allow audio shortcuts to be passed through using a space-separated list. The available options are $\mathtt{freerdp}$, \mathtt{view} , and \mathtt{xen} .

Bluetooth

Bluetooth registry keys.

Table E-2 Bluetooth registry keys

Registry key	Description
root/Bluetooth/enableBluetotoh	If set to 1, the Bluetooth service is started.
root/Bluetooth/visibleInSystemTray	If set to 1 as well as <code>enableBluetooth</code> , the Bluetooth system tray icon is displayed.
root/Bluetooth/SystrayApp/DeviceFilter/ majorClass	Major Device Class Filter. Semicolon-separated list of decimal numbers of the device classes. The string after a colon is ignored. Known classes are 0:Miscellaneous; 1:Computer; 2:Phone; 3:LAN/ Network Access Point; 4:Audio/Video; 5:Peripheral; 6:Imaging; 7:Wereable; 8:Toy; 9:Health; 31:Uncategorized. The devices which advertise one of the specified classes show up in the device scanner. Filter more relevant with Classic Bluetooth devices. An empty string disables the filter.
root/Bluetooth/SystrayApp/DeviceFilter/ services	Services Filter. Semicolon-separated list of 16-bit UUIDs or full 128-bit UUIDs. The string after a colon is ignored. 16-bit UUIDs are completed with the suffix 0000-1000-8000-00805f9b34fb to get a full Bluetooth Service 128-bit UUID. Relevant GATT Services are defined here: https://www.bluetooth.com/specifications/qatt/services/. The devices that advertise one of the specified UUID show up in the scanner. Filter more relevant with Bluetooth Smart devices. An empty string disables the filter. NOTE: The Services Filter is ignored when the Major Device Class
	of a given device matches in the Major Device Class Filter.
root/Bluetooth/SystrayApp/devices	If set to 1, the paired and connected Bluetooth remote devices are displayed.

Table E-2 Bluetooth registry keys (continued)

Registry key	Description
root/Bluetooth/SystrayApp/messageTimeout	Amount of time in seconds to display message notifications on top of the system tray icon. If set to 0, the notifications are disabled. A notification can open when a device has just been connected, for instance.
root/Bluetooth/SystrayApp/scanner	If set to 1, the Bluetooth scanner is displayed. Adding or removing paired Bluetooth remote devices is also possible with this setting.
root/Bluetooth/SystrayApp/switch	If set to 1, the Bluetooth switch to turn the Bluetooth adapter on or off is displayed.

CertMgr

This registry category is used internally and does not have any user-defined entries.

ComponentMgr

ComponentMgr registry key.

Table E-3 ComponentMgr registry key

Registry key	Description
root/ComponentMgr/ NotShowDeleteSnapshotWarning	If set to 1, warning information will not be shown while deleting a snapshot.

ConnectionManager

ConnectionManager registry keys.

Table E-4 ConnectionManager registry keys

Registry key	Description
root/ConnectionManager/ createSampleConnections	If set to 1, sample user-modifiable connection icons are created on the desktop on first boot.
root/ConnectionManager/customLogoPath	
root/ConnectionManager/defaultConnection	To properly launch a connection on startup, this must be set to a valid connection using the format <code><type>:<label></label></type></code> like in the following example:
	xen:Default Connection.
root/ConnectionManager/minHeight	
root/ConnectionManager/minWidth	
root/ConnectionManager/splashLogoPath	Sets the full path to the image displayed while a connection is loading.

Table E-4 ConnectionManager registry keys (continued)

Registry key	Description
root/ConnectionManager/useKioskMode	
root/ConnectionManager/ useSplashOnConnectionStartup	If set to 1, the image set by splashLogoPath is enabled. By default, this is enabled for ThinPro and disabled for Smart Zero.

ConnectionType

custom

ConnectionType/custom registry keys.

Table E-5 ConnectionType/custom registry keys

Registry key	Description
<pre>root/ConnectionType/custom/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/custom/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/custom/connections/ <uuid>/afterStartedCommand</uuid>	Sets the command to execute after the connection has been started.
root/ConnectionType/custom/connections/ <uuid>/afterStoppedCommand</uuid>	Sets the command to execute after the connection has been stopped.
root/ConnectionType/custom/connections/ <uuid>/authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/custom/connections/ <uuid>/authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection.
<pre>root/ConnectionType/custom/connections/ <uuid>/autoReconnect</uuid></pre>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/custom/connections/ <uuid>/autoReconnectDelay</uuid>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
root/ConnectionType/custom/connections/ <uuid>/autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/custom/connections/ <uuid>/beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/custom/connections/ <uuid>/command</uuid>	Sets the main command for the custom connection to execute.
root/ConnectionType/custom/connections/ <uuid>/connectionEndAction</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-5 ConnectionType/custom registry keys (continued)

Registry key	Description
root/ConnectionType/custom/connections/ <uuid>/coord</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/connections/ <uuid>/dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/connections/ <uuid>/extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/custom/connections/ <uuid>/extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/custom/connections/ <uuid>/fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/custom/connections/ <uuid>/hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
<pre>root/ConnectionType/custom/connections/ <uuid>/iconPosition</uuid></pre>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/custom/connections/ <uuid>/label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to <code>Default Connection</code> and does not display in the UI.
root/ConnectionType/custom/connections/ <uuid>/startMode</uuid>	If set to the default ${\tt focus}$ and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/custom/connections/ <uuid>/waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/custom/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/custom/coreSettings/ appName	Sets the internal application name to use for this connection type This key should not need to be modified.
root/ConnectionType/custom/coreSettings/ className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/ editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/ generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/custom/coreSettings/ icon16Path	Sets the path to the 16 × 16 pixel icon for this application.

Table E-5 ConnectionType/custom registry keys (continued)

Registry key	Description
root/ConnectionType/custom/coreSettings/ icon32Path	Sets the path to the 32 × 32 pixel icon for this application.
root/ConnectionType/custom/coreSettings/ icon48Path	Sets the path to the 48 × 48 pixel icon for this application.
root/ConnectionType/custom/coreSettings/ iconActive	Reserved for future use.
root/ConnectionType/custom/coreSettings/ label	Sets the name to display for this connection type in the UI.
root/ConnectionType/custom/coreSettings/ priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the configuration wizard that displays during initial setup. A higher value moves the connection type towards the top of the list. If set to 0, the connection type is hidden from the configuration wizard and is shown last in Connection Manager. Connection types with the same priority are listed in alphabetical order.
root/ConnectionType/custom/coreSettings/ serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
root/ConnectionType/custom/coreSettings/ stopProcess	Sets the behavior that should occur when connection-mgr stop is called on this connection. By default this is close, which will send a standard kill signal to the process. When set to kill, the process specified by appName will be forcefully killed. When set to custom, a custom execution script specified by wrapperScript will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/custom/coreSettings/tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/custom/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by ${\tt appName}.$ This key should not need to be modified.
root/ConnectionType/custom/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/custom/gui/ CustomManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/ CustomManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/ CustomManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/ CustomManager/widgets/autoReconnect	Controls the state of the Auto reconnect widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-5 ConnectionType/custom registry keys (continued)

Registry key	Description
root/ConnectionType/custom/gui/ CustomManager/widgets/autostart	Controls the state of the Auto start priority widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/custom/gui/ CustomManager/widgets/command	Controls the state of the Enter command to run widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/custom/gui/ CustomManager/widgets/fallBackConnection</pre>	Controls the state of the Fallback Connection widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/custom/gui/ CustomManager/widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/custom/gui/ CustomManager/widgets/label</pre>	Controls the state of the Name widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/custom/gui/ CustomManager/widgets/waitForNetwork</pre>	Controls the state of the Wait for network before connecting widget in Custom Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

firefox

ConnectionType/firefox registry keys.

Table E-6 ConnectionType/firefox registry keys

Registry key	Description
<pre>root/ConnectionType/firefox/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/firefox/connections/ <uuid>/address</uuid></pre>	Sets the URL or IP address to connect to.
<pre>root/ConnectionType/firefox/connections/ <uuid>/afterStartedCommand</uuid></pre>	Sets the command to execute after the connection has been started.
<pre>root/ConnectionType/firefox/connections/ <uuid>/afterStoppedCommand</uuid></pre>	Sets the command to execute after the connection has been stopped.

Table E-6 ConnectionType/firefox registry keys (continued)

Registry key	Description
root/ConnectionType/firefox/connections/ <uuid>/authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/firefox/connections/ <uuid>/authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection
root/ConnectionType/firefox/connections/ <uuid>/autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/firefox/connections/ <uuid>/autoReconnectDelay</uuid>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
root/ConnectionType/firefox/connections/ <uuid>/autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/firefox/connections/ <uuid>/autostartDelay</uuid>	Reserved for future use.
root/ConnectionType/firefox/connections/ <uuid>/beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/firefox/connections/ <uuid>/connectionEndAction</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/ <uuid>/coord</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/ <uuid>/dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/ <uuid>/enablePrintDialog</uuid>	If set to 1, the Print dialog in the web browser can be used.
root/ConnectionType/firefox/connections/ <uuid>/enableSmartCard</uuid>	If set to 1, smart card login is enabled for Citrix connections created via the web browser.
root/ConnectionType/firefox/connections/ <uuid>/extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/firefox/connections/ <uuid>/extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/firefox/connections/ <uuid>/fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/firefox/connections/ <uuid>/forbiddenFiles</uuid>	This registry key only works when Allow connections to manage their own settings is selected in the Web Browser Connection General Settings Manager. The files listed in this registry key's value will be removed after a Web Browser connection is ended. The file names should be separated by a comma, and a wildcard is supported. For example: *.rdf,cookies.sqlite
root/ConnectionType/firefox/connections/ <uuid>/fullscreen</uuid>	If set to 1, the web browser will start in full screen. If ${\tt kioskMod}$ is disabled, the browser UI is accessible in full screen mode.

Table E-6 ConnectionType/firefox registry keys (continued)

Registry key	Description
root/ConnectionType/firefox/connections/ <uuid>/hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
<pre>root/ConnectionType/firefox/connections/ <uuid>/iconPosition</uuid></pre>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/firefox/connections/ <uuid>/intendedUse</uuid>	Sets the intended usage of this Web Browser connection to Citrix, RDP, or Internet.
root/ConnectionType/firefox/connections/ <uuid>/kioskMode</uuid>	If set to 1, the web browser will launch in kiosk mode, meaning that the web browser will start in full screen (even if fullscreen is set to 0) and the browser UI is inaccessible.
root/ConnectionType/firefox/connections/ <uuid>/label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to <code>Default Connection</code> and does not display in the UI.
root/ConnectionType/firefox/connections/ <uuid>/manageOwnPrefs</uuid>	If set to 1, the connection manages its own preferences and stores them in the following location: $/\texttt{etc/firefox/}$. If set to 0, the connection uses shared preferences.
root/ConnectionType/firefox/connections/ <uuid>/showBackForwardButton</uuid>	If set to 1, the web browser's Back and Forward buttons are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/showHomeButton</uuid>	If set to 1, the web browser's Home button is displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/showSearchBar</uuid>	If set to 1, the web browser's search bar is displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/showTabsBar</uuid>	If set to 1, the web browser's tabs are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/showTaskBar</uuid>	If set to 1, the web browser's taskbar is displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/showUrlBarRefreshButton</uuid>	If set to 1, the web browser's URL bar and Refresh button are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/ <uuid>/startMode</uuid>	If set to the default ${\tt focus}$ and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/firefox/connections/ <uuid>/waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/firefox/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/firefox/coreSettings/ appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.

Table E-6 ConnectionType/firefox registry keys (continued)

Registry key	Description
root/ConnectionType/firefox/coreSettings/ editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/ icon	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/firefox/coreSettings/ icon16Path	Sets the path to the 16 \times 16 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/ icon32Path	Sets the path to the 32 × 32 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/ icon48Path	Sets the path to the 48 × 48 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/ iconActive	Reserved for future use.
root/ConnectionType/firefox/coreSettings/ label	Sets the name to display for this connection type in the UI.
root/ConnectionType/firefox/coreSettings/ priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/firefox/coreSettings/ restartIdleTime	Sets the time in minutes before the web browser restarts when the system is not receiving user input. If set to 0, restart is disabled.
root/ConnectionType/firefox/coreSettings/ serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
<pre>root/ConnectionType/firefox/coreSettings/ stopProcess</pre>	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument <code>stop</code> to terminate the process gracefully.
root/ConnectionType/firefox/coreSettings/ tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/firefox/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/firefox/general/ enableUserChanges	If set to 1, the settings configured in the Firefox Preferences dialog will be saved after each session.
root/ConnectionType/firefox/gui/ FirefoxManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-6 ConnectionType/firefox registry keys (continued)

Registry key	Description
root/ConnectionType/firefox/gui/ FirefoxManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/gui/ FirefoxManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/address	Controls the state of the URL widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/autoReconnect	Controls the state of the Auto reconnect widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/autostart	Controls the state of the Auto start priority widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/firefox/gui/ FirefoxManager/widgets/enablePrintDialog</pre>	Controls the state of the Enable print dialog widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/firefox/gui/ FirefoxManager/widgets/fallBackConnection</pre>	Controls the state of the Fallback Connection widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/kioskMode	Controls the state of the Enable kiosk mode widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/firefox/gui/ FirefoxManager/widgets/label</pre>	Controls the state of the Name widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/showBackForwardButton	Controls the state of the Show Back and Forward Button widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-6 ConnectionType/firefox registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/firefox/gui/ FirefoxManager/widgets/showHomeButton</pre>	Controls the state of the Show Home Button widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/showSearchBar	Controls the state of the Show Search Bar widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/showTabsBar	Controls the state of the Show Tabs Bar widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/showTaskBar	Controls the state of the Show Task Bar widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/firefox/gui/ FirefoxManager/widgets/ showUrlBarRefreshButton</pre>	Controls the state of the Show URL Bar and Refresh Button widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/startMode	Controls the state of the Enable full screen widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/ FirefoxManager/widgets/waitForNetwork	Controls the state of the Wait for network before connecting widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

freerdp

ConnectionType/freerdp registry keys.

Table E-7 ConnectionType/freerdp registry keys

Registry key	Description
<pre>root/ConnectionType/freerdp/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/ExtraArgs</uuid></pre>	Specifies extra arguments for the xfreerdp client. Run xfreerdphelp from an X terminal to see all available arguments.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/SingleSignOn</uuid></pre>	If enabled, the user, domain, and password combination for the RDP connection is saved to unlock the screen saver.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/address</uuid>	Sets the hostname or IP address to connect to. The port number can be appended on the end after a colon character, for example, servername: 3389
root/ConnectionType/freerdp/connections/ <uuid>/afterStoppedCommand</uuid>	Sets the command to execute after the connection has been stopped.
root/ConnectionType/freerdp/connections/ <uuid>/application</uuid>	Specifies an alternate shell or application to run.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/attachToConsole</uuid></pre>	
root/ConnectionType/freerdp/connections/ <uuid>/audioLatency</uuid>	Sets the average milliseconds of offset between the audio strean and the display of corresponding video frames after decoding.
root/ConnectionType/freerdp/connections/ <uuid>/authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/freerdp/connections/ <uuid>/authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection
root/ConnectionType/freerdp/connections/ <uuid>/autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/freerdp/connections/ <uuid>/autoReconnectDelay</uuid>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
root/ConnectionType/freerdp/connections/ <uuid>/autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/freerdp/connections/ <uuid>/bandwidthLimitation</uuid>	If set to a value greater than 0, the value represents an approximate bandwidth limitation for downloading and uploadin in kilobytes per second. If set to 0 (the default), there is no limitation.
root/ConnectionType/freerdp/connections/ <uuid>/beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/freerdp/connections/ <uuid>/clipboardExtension</uuid>	If set to 1, clipboard functionality is enabled between different RDP sessions and between RDP sessions and the local system.
root/ConnectionType/freerdp/connections/ <uuid>/compression</uuid>	If set to 1, compression of RDP data sent between the client and the server is enabled.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/credentialsType</uuid></pre>	Specifies the credential type between sso (single sign-on), startup (credentials are requested at startup), password (preconfigured user/domain/password), or smartcard (preconfigured smart card).
root/ConnectionType/freerdp/connections/ <uuid>/dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/freerdp/connections/ <uuid>/directory</uuid>	Specifies the startup directory where an alternate shell application is executed.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/disableMMRwithRFX</uuid>	If set to 1, multimedia redirection is disabled if a valid RemoteFX session is established.
root/ConnectionType/freerdp/connections/ <uuid>/domain</uuid>	Sets the default domain to supply to the remote host during login. If a domain is not specified, the default domain for the remote host will be used.
root/ConnectionType/freerdp/connections/ <uuid>/enableMMR</uuid>	If set to 1, the Multimedia Redirection add-on is enabled, causing supported codecs played through Windows Media Player to be redirected to the client.
root/ConnectionType/freerdp/connections/ <uuid>/extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/freerdp/connections/ <uuid>/extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/freerdp/connections/ <uuid>/fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/freerdp/connections/ <uuid>/frameAcknowledgeCount</uuid>	Sets the number of video frames the server can push without waiting for acknowledgement from the client. Lower numbers result in a more responsive desktop but lower frame rate. If set to 0, frame acknowledgement is not used in the client-server interactions.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayAddress</uuid>	Sets the RD Gateway server name or address.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayCredentialsType</uuid>	Specifies the credential type between whether credentials are to be supplied by sso (single sign-on), startup (credentials are requested at startup), or password (preconfigured user/domain, password).
root/ConnectionType/freerdp/connections/ <uuid>/gatewayDomain</uuid>	Sets the default domain to supply to the RD Gateway during login. Usually, this setting is used with kiosk-style applications where a generic user name is used to log in. If gatewayUsesSameCredentials is set to 1, this value is disabled.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayEnabled</uuid>	If set to 1, the RD Gateway is expected to be used.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayPassword</uuid>	Sets the default password to supply to the RD Gateway during login. This value is usually encrypted. Usually, this setting is used with kiosk-style applications where a generic user name is used to log in. If gatewayUsesSameCredentials is set to 1, this value is disabled.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayPort</uuid>	Sets the port number to use when contacting the RDP server. This value can be left empty. The most common value is 443.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayUser</uuid>	Sets the default user name to supply to the RD Gateway during login. Usually, this setting is used with kiosk-style applications where a generic user name is used to log in. If gatewayUsesSameCredentials is set to 1, this value is disabled.
root/ConnectionType/freerdp/connections/ <uuid>/gatewayUsesSameCredentials</uuid>	If set to 1, the same credentials that are used to connect to the final server are used to connect to the RD Gateway.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/hostnameType</uuid></pre>	If set to hostname, the system hostname is sent to the remote host. This is typically used to identify the thin client associated with a particular RDP session. The sent hostname can be overridden using sendHostname in the connection-specific settings. If set to mac, the MAC address of the first available network adapter is sent instead of the hostname.
root/ConnectionType/freerdp/connections/ <uuid>/iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/label</uuid></pre>	Sets the connection name that is displayed in the UI. On Smart Zero, this is typically set to Default Connection and does not display in the UI.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loadBalanceInfo</uuid></pre>	This value is the load balancing cookie sent for brokering purposes to the server upon connection. This value orresponds to the loadbalanceinfo field in the .rdp file. By default, the value is empty.
root/ConnectionType/freerdp/connections/ <uuid>/localPartitionRedirection</uuid>	If set to 1, the local non-USB storage partitions are redirected to the remote host via the Storage extension. If set to 0, the extension is disabled for non-USB storage partitions that are not used by HP ThinPro.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/domain</uuid></pre>	If set to 1, the Domain field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/password</uuid></pre>	If set to 1, the Password field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/rememberme</uuid></pre>	If set to 1, the Remember me check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/server</uuid></pre>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/freerdp/connections/ <uuid>/loginfields/showpassword</uuid>	If set to 1, the Show password check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/smartcard</uuid></pre>	If set to 1, the Smart card login check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden. This check box might not appear if no smart card is detected, even if this option is enabled.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/loginfields/username</uuid></pre>	If set to 1, the User Name field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/mouseMotionEvents</uuid></pre>	If set to 0, mouse motion events are not sent to the server. This can prevent some user feedback such as tooltips from functioning properly.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/freerdp/connections/ <uuid>/offScreenBitmaps</uuid></pre>	If set to 0, off-screen bitmaps are disabled. This setting can increase performance slightly but will cause blocks of the screen to update asynchronously, causing screen transitions to update non-uniformly.
root/ConnectionType/freerdp/connections/ <uuid>/password</uuid>	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagDesktopComposition</uuid>	If set to 1, desktop composition (such as translucent borders) is allowed if supported by the server. Turning off desktop composition can improve performance for low-bandwidth connections. Generally, this affects only RemoteFX. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagFontSmoothing</uuid>	If set to 1, font smoothing is allowed if supported by the server and enabled. Turning off font smoothing can improve performance on low-bandwidth connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoCursorSettings</uuid>	If set to 1, cursor blinking is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoCursorShadow</uuid>	If set to 1, mouse cursor shadows are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoMenuAnimations</uuid>	If set to 1, menu animations are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoTheming</uuid>	If set to 1, user interface themes are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoWallpaper</uuid>	If set to 1, the desktop wallpaper is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/perfFlagNoWindowDrag</uuid>	If set to 1, full-content window dragging is disabled, which can improve performance on low-bandwidth RDP connections. The window outline is used instead. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/ <uuid>/portMapping</uuid>	If set to 1, all serial and parallel ports are redirected to the remote host via the ${\tt Ports}$ extension. If set to 0, the extension is disabled.
root/ConnectionType/freerdp/connections/ <uuid>/printerMapping</uuid>	If set to 1, all printers defined locally via CUPS are redirected to the remote host via the Printers extension. If set to 0, the extension is disabled. If set to 2, the USB printers are redirected as configured in USB Manager.
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/autoDisconnectTimeout</uuid>	Sets the number of minutes there can be no RemoteApp and Desktop resource running before the connection ends automatically. A countdown counter is displayed during the last 20 seconds, providing the user an opportunity to disarm the timer. If set to 0 (the default), the timer is disabled.
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/autoStartSingleResource</uuid>	If set to 1, and if only a single published resource (RemoteApp program or virtual desktop) is returned by the server, that resource will be started automatically.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/filter/<uuid>/alias</uuid></uuid>	Specifies the alias of a resource for the resource filter. RemoteApp and Desktop resources with a matching alias will be available to users.
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/filter/<uuid>/name</uuid></uuid>	Specifies the name of a resource for the resource filter. RemoteApp and Desktop resources with a matching name will be available to users.
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/keepResourcesWindowOpened</uuid>	If set to 0, the resource selection window is closed automatically after a resource has started. If set to 1, the resource selection window is kept open after resources have started. This allows a user to start several resources before closing the resource selection window.
root/ConnectionType/freerdp/ connections/ <uuid>/rdWebFeed/ trustedPublisherSha1Thumbprints</uuid>	Specifies a comma-separated list of SHA1 thumbprints of the trusted resource publishers. Note that a certificate that matches one of these thumbprints is not verified. Import the publisher's root CA for better security. Also see the registry key verifyPublisherSignature and Certificate Manager in Control Panel.
root/ConnectionType/freerdp/connections/ <uuid>/rdWebFeed/verifyPublisherSignature</uuid>	If set to 1, the publisher's signature is verified when available in published .rdp files. Only resources with a valid signature from a trusted publisher can be run. If set to 0, no verification of the signature is done. Also see the registry key trustedPublisherShalThumbprints.
root/ConnectionType/freerdp/connections/ <uuid>/rdp6Buffering</uuid>	If set to 1, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
root/ConnectionType/freerdp/connections/ <uuid>/rdp8Codecs</uuid>	If set to 1, RDP 8 codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/ <uuid>/rdpEncryption</uuid>	If set to 1, standard RDP encryption is used to encrypt all data between the client and the server.
root/ConnectionType/freerdp/connections/ <uuid>/rdpH264Codec</uuid>	If set to 1, RDP 8 H.264 codecs are used if available. This setting has known visual errors, particularly in multi-monitor configurations, and should be considered experimental and unsupported. Enabling this setting simply advises the server that the thin client supports H.264 for desktop display. The server must also support H.264, and the server makes the final decision about what codecs are used. This setting affects only the desktop codecs. It does not affect multimedia redirection codecs.
root/ConnectionType/freerdp/connections/ <uuid>/rdpProgressiveCodec</uuid>	If set to 1, RDP 8 progressive codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 progressive codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/ <uuid>/redirectPreference</uuid>	For redirection, the RDP client is given several destination possibilities. It normally tries them in the following order: FQDN, Primary IP, IP List, NetBIOS. If FQDN is not desired, one of the alternatives can be tried first by setting this registry key. If the specified method does not work, the RDP client falls back to the original order. A setting of auto forces the original order.
root/ConnectionType/freerdp/connections/ <uuid>/remoteApp</uuid>	Specifies the name of an available application to run in Remote Application Integrated Locally (RAIL) mode.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/remoteAppEnabled</uuid>	WARNING! FreeRDP 1 has limited support of the RemoteApp programs. If set to 1, the RemoteApp programs can be set up in the FreeRDP connection editor and are visible among the RD Web Access resources. See also: remoteApp, windowMode, application and directory.
root/ConnectionType/freerdp/connections/ <uuid>/remoteDesktopService</uuid>	If set to Remote Computer, a direct RDP connection to a remote computer is done. If set to RD Web Access, a connection to an RD Web Access service is done first to retrieve a feed of the published RemoteApp resources.
root/ConnectionType/freerdp/connections/ <uuid>/remoteFx</uuid>	If set to 1, RemoteFX in the style of RDP 7.1 is used if available. This setting is deprecated and might disappear in a future release of HP ThinPro. This setting should be disabled only in the case of a defect specific to RemoteFX protocol. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/ <uuid>/requireEncryptionOracleRemediation</uuid>	If set to 1, the Remote Desktop Client refuses to connect to servers that do not offer suitable protections. This addresses Microsoft security vulnerability CVE-2018-0886.
root/ConnectionType/freerdp/connections/ <uuid>/scCertificate</uuid>	If a preconfigured smart card login is selected, this gives an identifier corresponding to the certificate on that smart card to be used for authentication.
root/ConnectionType/freerdp/connections/ <uuid>/scPin</uuid>	If a preconfigured smart card login is selected, this gives the PIN or password for that smart card.
root/ConnectionType/freerdp/connections/ <uuid>/scRedirection</uuid>	If set to 1, all local smart card readers are redirected to the remote host but are not used for the Network Level Authentication (NLA) of the RDP session.
	NOTE: If credentialsType is set to smartcard or smartcard is set to 1, scRedirection is ignored, depending on the HP ThinPro version. In this configuration, the smart card readers are always redirected.
root/ConnectionType/freerdp/connections/ <uuid>/seamlessWindow</uuid>	If set to 1, window decorations are disabled. This can be desirable in a multi-monitor configuration to allow the connection to be set to the size of the primary monitor.
root/ConnectionType/freerdp/connections/ <uuid>/securityLevel</uuid>	Sets the certificate security level. If set to 0, all connections are allowed. If set to 1, remembered hosts are selected and a warning dialog is shown if verification is not passed. If set to 2, remembered hosts are not selected and a warning dialog is shown if verification is not passed. If set to 3, all insecure connections are refused.
root/ConnectionType/freerdp/connections/ <uuid>/sendHostname</uuid>	Sets the thin client hostname that is sent to the remote host. If left blank, the system hostname is sent. The registry key root/ConnectionType/freerdp/general/sendHostname must be set to hostname for this key to be used.
root/ConnectionType/freerdp/connections/ <uuid>/showConnectionGraph</uuid>	This is a diagnostic function. If set to 1, when the session starts, a separate program will be started to graph the connection's health.
root/ConnectionType/freerdp/connections/ <uuid>/showRDPDashboard</uuid>	If set to 1, when the session starts, a separate window displays RDP performance and status.
root/ConnectionType/freerdp/connections/ <uuid>/smartcard</uuid>	If set to 1, local smartcard authentication to the remote host is allowed. Currently, this will disable Network Level Authentication (NLA).

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/freerdp/connections/ <uuid>/sound</uuid></pre>	If set to 1, the playback and recording devices are redirected to the remote host via the Audio extension. If set to 0, the extension is disabled. If set to 2, the USB audio devices are redirected as configured in USB Manager. Generally, HP recommends setting this value to 1 so that high-level audio redirection is used. This will improve audio quality and ensure that client audio redirected via other extensions (such as Multimedia Redirection) matches local audio settings.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/startMode</uuid></pre>	If set to the default ${\tt focus}$ and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/freerdp/connections/ <uuid>/timeoutError</uuid>	Sets the number of milliseconds to wait after losing the connection before giving up on reconnecting with the server. If set to 0, reconnection is attempted forever.
root/ConnectionType/freerdp/connections/ <uuid>/timeoutRecovery</uuid>	Sets the number of milliseconds to wait after losing the connection for networking to recover without trying a forced reconnect.
root/ConnectionType/freerdp/connections/ <uuid>/timeoutWarning</uuid>	Sets the number of milliseconds to wait after losing the connection before warning the user that the connection has been lost.
root/ConnectionType/freerdp/connections/ <uuid>/timeoutWarningDialog</uuid>	If set to 1, when an end-to-end connection drop is detected, a dialog is displayed and the screen will turn grayscale. Otherwise, messages are written to the connection log and the session freezes.
root/ConnectionType/freerdp/connections/ <uuid>/timeoutsEnabled</uuid>	If set to 1, end-to-end connection health checks are done.
root/ConnectionType/freerdp/connections/ <uuid>/tlsVersion</uuid>	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto.
	NOTE: There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
root/ConnectionType/freerdp/connections/ <uuid>/usbMiscRedirection</uuid>	If set to 0, redirection is disabled for all other USB devices except those handled by sound, printerMapping, portMapping, usbStorageRedirection, and localPartitionRedirection. If set to 2, all other USB devices are redirected to the remote host as configured in USB Manager.
root/ConnectionType/freerdp/connections/ <uuid>/usbStorageRedirection</uuid>	If set to 1, USB storage devices are redirected to the remote host via the Storage extension. If set to 0, the extension is disabled. If set to 2, USB storage devices are redirected as configured in USB Manager.
root/ConnectionType/freerdp/connections/ <uuid>/username</uuid>	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/freerdp/connections/ <uuid>/waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/connections/ <uuid>/windowMode</uuid>	If set to Remote Application, RDP will run in Remote Application Integrated Locally (RAIL) mode. This requires that the RemoteApp server allows the desired application to run as a remote application. The application will be displayed in a separate window within the desktop environment, making it look like the application is part of the local system. Also see the remoteApp registry key. If set to Alternate Shell, a non-standard shell is invoked. Also see the application and directory registry keys.
<pre>root/ConnectionType/freerdp/connections/ <uuid>/windowSizeHeight</uuid></pre>	
root/ConnectionType/freerdp/connections/ <uuid>/windowSizePercentage</uuid>	
root/ConnectionType/freerdp/connections/ <uuid>/windowSizeWidth</uuid>	
<pre>root/ConnectionType/freerdp/connections/ <uuid>/windowType</uuid></pre>	
root/ConnectionType/freerdp/connections/ <uuid>/x11Capture</uuid>	This is a diagnostic function. If set to 1, X11 operations are captured for later playback.
root/ConnectionType/freerdp/connections/ <uuid>/x11CaptureDir</uuid>	This is a diagnostic function. The value sets the directory for X11 capture files.
root/ConnectionType/freerdp/connections/ <uuid>/x11LogAutoflush</uuid>	This is a diagnostic function. If set to 1, the X11 logfile is more frequently flushed to disk.
root/ConnectionType/freerdp/connections/ <uuid>/x11Logfile</uuid>	This is a diagnostic function. The value sets the path to the X11 logfile.
root/ConnectionType/freerdp/connections/ <uuid>/x11Logging</uuid>	This is a diagnostic function. If set to 1, X11 operations are logged.
root/ConnectionType/freerdp/connections/ <uuid>/x11Synchronous</uuid>	This is a diagnostic function. If set to 1, X11 operations are not buffered.
root/ConnectionType/freerdp/connections/ <uuid>/xkbLayoutId</uuid>	Sets an XKB layout ID for bypassing the system keyboard. To see the list of available IDs, enter the following command in an X terminal: xfreerdpkbd-list.
root/ConnectionType/freerdp/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/freerdp/coreSettings/ appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/ className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/ disableLinkDropWarning	If set to 1, the operating system does not generate a dialog indicating that networking is down because the connection protocol handles such situations.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
root/ConnectionType/freerdp/coreSettings/ editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/freerdp/coreSettings/ icon</pre>	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/freerdp/coreSettings/ icon16Path	Sets the path to the 16 \times 16 pixel icon for this application.
<pre>root/ConnectionType/freerdp/coreSettings/ icon32Path</pre>	Sets the path to the 32 × 32 pixel icon for this application.
root/ConnectionType/freerdp/coreSettings/ icon48Path	Sets the path to the 48 × 48 pixel icon for this application.
<pre>root/ConnectionType/freerdp/coreSettings/ iconActive</pre>	Reserved for future use.
<pre>root/ConnectionType/freerdp/coreSettings/ initialConnectionTimeout</pre>	Sets the number of seconds to wait for an initial response from the RDP server before giving up.
root/ConnectionType/freerdp/coreSettings/ label	Sets the name to display for this connection type in the UI.
root/ConnectionType/freerdp/coreSettings/ priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/freerdp/coreSettings/ stopProcess	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/freerdp/coreSettings/ tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/freerdp/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by <code>appName</code> . This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/ wrapperScriptGeneration	Lets Connection Manager know what type of parameters to pass to the wrapper script.
<pre>root/ConnectionType/freerdp/general/ autoReconnectDialogTimeout</pre>	If autoReconnect is enabled, this key sets the number of seconds before timing out any error dialogs for the connection. If set to 0, the dialogs wait indefinitely for user interaction.

Table E-7 ConnectionType/freerdp registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/freerdp/general/ disablePasswordChange</pre>	When a remote login fails due to bad credentials, the user is presented with a button that brings up a dialog for updating their password. If this key is set is 1, that button and dialog are not displayed.
<pre>root/ConnectionType/freerdp/general/ preferredAudio</pre>	Sets the default audio backend for high-level audio redirection (both in and out).
<pre>root/ConnectionType/freerdp/general/ rdWebFeedUrlPattern</pre>	Sets the pattern used to build the RD Web Access URL. The host of the URL, e.g. myserver.com, is replaced by the value of the connection's Address field. This pattern is not used when the address is already a URL.
<pre>root/ConnectionType/freerdp/general/ serialPortsDriver</pre>	This setting ensures a better compatibility with the expected underlying Windows driver SerCx2.sys, SerCx.sys, or Serial.sys.
<pre>root/ConnectionType/freerdp/general/ serialPortsPermissive</pre>	If set to 1, errors for unsupported features will be ignored.

ssh

SSH registry keys.

Table E-8 SSH registry keys

Registry key	Description
root/ConnectionType/ssh/authorizations/ user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/ssh/authorizations/user/ general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/ssh/connections/ <uuid>/ address</uuid>	Sets the hostname or IP address to connect to.
root/ConnectionType/ssh/connections/ <uuid>/ afterStartedCommand</uuid>	Sets the command to execute after the connection has been started.
root/ConnectionType/ssh/connections/ <uuid>/ afterStoppedCommand</uuid>	Sets the command to execute after the connection has been stopped.
root/ConnectionType/ssh/connections/ <uuid>/ application</uuid>	Specifies the application to run.
root/ConnectionType/ssh/connections/ <uuid>/ authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/ssh/connections/ <uuid>/ authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection
root/ConnectionType/ssh/connections/ <uuid>/ autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.

Table E-8 SSH registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/ssh/connections/<uuid>/ autoReconnectDelay</uuid></pre>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
<pre>root/ConnectionType/ssh/connections/<uuid>/ autostart</uuid></pre>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/ssh/connections/ <uuid>/ backgroundColor</uuid>	Sets the background color for the connection.
root/ConnectionType/ssh/connections/ <uuid>/ beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/ssh/connections/ <uuid>/ compression</uuid>	Enables compression for an SSH connection.
root/ConnectionType/ssh/connections/ <uuid>/ connectionEndAction</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/ <uuid>/ coord</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/ <uuid>/ dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/ <uuid>/ extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/ssh/connections/ <uuid>/ extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/ssh/connections/ <uuid>/ fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/ssh/connections/ <uuid>/</uuid>	Sets the font size for the connection.
root/ConnectionType/ssh/connections/ <uuid>/ foregroundColor</uuid>	Sets the foreground color for the connection.
root/ConnectionType/ssh/connections/ <uuid>/</uuid>	If set to 1, the Fork into background option is enabled for the connection.
root/ConnectionType/ssh/connections/ <uuid>/ hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/ssh/connections/ <uuid>/ iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/ssh/connections/ <uuid>/ isInMenu</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/ <uuid>/ label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to Default Connection and does not display in the UI.

Table E-8 SSH registry keys (continued)

Registry key	Description
root/ConnectionType/ssh/connections/ <uuid>/ loginfields/server</uuid>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/ssh/connections/ <uuid>/ loginfields/username</uuid>	If set to 1, the User Name box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/ssh/connections/ <uuid>/ port</uuid>	Sets the port number to use when contacting the SSH server. The default is 22.
root/ConnectionType/ssh/connections/ <uuid>/ startMode</uuid>	If set to the default ${\tt focus}$ and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/ssh/connections/ <uuid>/tty</uuid>	If set to 1, the Force TTY allocation option is enabled for the connection.
root/ConnectionType/ssh/connections/ <uuid>/ username</uuid>	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/ssh/connections/ <uuid>/ waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/ssh/connections/ <uuid>/x11</uuid>	If set to 1, the X11 connection forwarding option is enabled for the connection.
root/ConnectionType/ssh/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/ssh/coreSettings/appName	Sets the internal application name to use for this connection type This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/ className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/ssh/coreSettings/ icon16Path	Sets the path to the 16 \times 16 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/ icon32Path	Sets the path to the 32 × 32 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/ icon48Path	Sets the path to the 48 × 48 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/ iconActive	Reserved for future use.
root/ConnectionType/ssh/coreSettings/label	Sets the name to display for this connection type in the UI.

Table E-8 SSH registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/ssh/coreSettings/ priorityInConnectionLists</pre>	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/ssh/coreSettings/ serverRequired	Sets whether a server name or address is $unused$, optional, or required for this connection type.
root/ConnectionType/ssh/coreSettings/ stopProcess	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/ssh/coreSettings/tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/ssh/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by <code>appName</code> . This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/ssh/gui/SshManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/ status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/ widgets/address	Controls the state of the Address widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/application	Controls the state of the Run application widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/autoReconnect	Controls the state of the Auto reconnect widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/autostart	Controls the state of the Auto start priority widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-8 SSH registry keys (continued)

Registry key	Description
root/ConnectionType/ssh/gui/SshManager/ widgets/backgroundColor	Controls the state of the Background color widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/compression	Controls the state of the Compression widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/fallBackConnection	Controls the state of the Fallback Connection widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/font	Controls the state of the Font widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/foregroundColor	Controls the state of the Foreground color widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/fork	Controls the state of the Fork into background widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/ widgets/label	Controls the state of the Name widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/port	Controls the state of the Port widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/ widgets/tty	Controls the state of the Force TTY allocation widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-8 SSH registry keys (continued)

Registry key	Description
root/ConnectionType/ssh/gui/SshManager/ widgets/username	Controls the state of the User name widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/ssh/gui/SshManager/ widgets/waitForNetwork</pre>	Controls the state of the Wait for network before connecting widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/x11	Controls the state of the X11 connection forwarding widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

telnet

ConnectionType/telnet registry keys.

Table E-9 ConnectionType/telnet registry keys

Registry key	Description
<pre>root/ConnectionType/telnet/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/telnet/authorizations/ user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/telnet/connections/ <uuid>/address</uuid>	Sets the hostname or IP address to connect to.
root/ConnectionType/telnet/connections/ <uuid>/afterStartedCommand</uuid>	Sets the command to execute after the connection has been started.
root/ConnectionType/telnet/connections/ <uuid>/afterStoppedCommand</uuid>	Sets the command to execute after the connection has been stopped.
root/ConnectionType/telnet/connections/ <uuid>/authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/telnet/connections/ <uuid>/authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/telnet/connections/ <uuid>/autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/telnet/connections/ <uuid>/autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/telnet/connections/ <uuid>/backgroundColor</uuid>	Sets the background color for the connection.

Table E-9 ConnectionType/telnet registry keys (continued)

Registry key	Description
root/ConnectionType/telnet/connections/ <uuid>/beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/telnet/connections/ <uuid>/connectionEndAction</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/ <uuid>/coord</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/ <uuid>/dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/ <uuid>/extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/telnet/connections/ <uuid>/extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/telnet/connections/ <uuid>/fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/telnet/connections/ <uuid>/font</uuid>	Sets the font size for the connection.
root/ConnectionType/telnet/connections/ <uuid>/foregroundColor</uuid>	Sets the foreground color for the connection.
root/ConnectionType/telnet/connections/ <uuid>/hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/telnet/connections/ <uuid>/iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/telnet/connections/ <uuid>/label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to Default Connection and does not display in the UI.
root/ConnectionType/telnet/connections/ <uuid>/locale</uuid>	Sets the locale of the connection.
root/ConnectionType/telnet/connections/ <uuid>/loginfields/server</uuid>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/telnet/connections/ <uuid>/port</uuid>	Sets the port number to use when contacting the server. The default is 23.
root/ConnectionType/telnet/connections/ <uuid>/startMode</uuid>	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/telnet/connections/ <uuid>/waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.

Table E-9 ConnectionType/telnet registry keys (continued)

Registry key	Description
root/ConnectionType/telnet/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/telnet/coreSettings/ appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/telnet/coreSettings/ className</pre>	Sets the internal application class name to use for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/telnet/coreSettings/ editor</pre>	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/telnet/coreSettings/ generalSettingsEditor</pre>	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/telnet/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
<pre>root/ConnectionType/telnet/coreSettings/ icon16Path</pre>	Sets the path to the 16 \times 16 pixel icon for this application.
<pre>root/ConnectionType/telnet/coreSettings/ icon32Path</pre>	Sets the path to the 32 × 32 pixel icon for this application.
<pre>root/ConnectionType/telnet/coreSettings/ icon48Path</pre>	Sets the path to the 48 × 48 pixel icon for this application.
<pre>root/ConnectionType/telnet/coreSettings/ iconActive</pre>	Reserved for future use.
<pre>root/ConnectionType/telnet/coreSettings/ label</pre>	Sets the name to display for this connection type in the UI.
<pre>root/ConnectionType/telnet/coreSettings/ priorityInConnectionLists</pre>	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/telnet/coreSettings/ serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
<pre>root/ConnectionType/telnet/coreSettings/ stopProcess</pre>	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to kill, the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument stop
root/ConnectionType/telnet/coreSettings/tier	to terminate the process gracefully. Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.

Table E-9 ConnectionType/telnet registry keys (continued)

Registry key	Description
root/ConnectionType/telnet/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/telnet/gui/ TelnetManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/gui/ TelnetManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/gui/ TelnetManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/address	Controls the state of the Address widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/autoReconnect	Controls the state of the Auto reconnect widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/autostart	Controls the state of the Auto start priority widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/backgroundColor	Controls the state of the Background color widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/fallBackConnection	Controls the state of the Fallback Connection widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/foregroundColor	Controls the state of the Foreground color widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/label	Controls the state of the Name widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-9 ConnectionType/telnet registry keys (continued)

Registry key	Description
root/ConnectionType/telnet/gui/ TelnetManager/widgets/port	Controls the state of the Port widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/ TelnetManager/widgets/waitForNetwork	Controls the state of the Wait for network before connecting widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

TTerm

TTerm registry keys.

Table E-10 TTerm registry keys

Registry key	Description
<pre>root/ConnectionType/tterm/connections/ <uuid>/ authorizations/user/edit</uuid></pre>	If set to 1, end users have permission to modify the connection settings for this connection.
root/ConnectionType/tterm/connections/ <uuid>/ authorizations/user/execution</uuid>	If set to 1, end users have permission to run this connection.
root/ConnectionType/tterm/connections/ <uuid>/ loginfields/password</uuid>	If set to 1, the Password field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden. If set to 3, system settings take precedence.
root/ConnectionType/tterm/connections/ <uuid>/ waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available so that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ autoReconnect</uuid></pre>	If set to 1, the connection restarts when it is closed or disconnected.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ coord</uuid></pre>	This registry key is either used internally or reserved for future use. Do not change this value.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ label</uuid></pre>	Sets the connection name that is displayed in the UI. On Smart Zero, this is typically set to Default Connection and does not show in the UI.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ full-screen</uuid></pre>	Runs the connection in full-screen mode, if set.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ maximized</uuid></pre>	Runs the connection in maximized mode, if set.

Table E-10 TTerm registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/tterm/connections/ <uuid>/ sessionPanel</uuid></pre>	If it is not in full-screen mode, set it to 0 to clear session panel at start.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ profile/name</uuid></pre>	Profile name is saved here. Do not edit it manually; use connection manager instead.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ profile/ttexp</uuid></pre>	Profile file is saved here. Do not edit it manually; use connection manager instead.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ iconPosition</uuid></pre>	For pinned desktop icons, an x,y pair. For floating icons, leave this string blank.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ autostart</uuid></pre>	If set to a value of 1–5, the connection starts automatically after the system starts, with the value of 1 having the highest priority.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ address</uuid></pre>	Sets the host name or IP address to connect to.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ locale</uuid></pre>	Sets the locale of the connection.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ hasDesktopIcon</uuid></pre>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ extraEnvValues/<uuid>/key</uuid></uuid></pre>	Sets the name of an extra environment variable for use with the connection.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ extraEnvValues/<uuid>/value</uuid></uuid></pre>	Sets the value of an extra environment variable for use with the connection.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ afterStartedCommand</uuid></pre>	Sets the command to run after the connection has been started.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ afterStoppedCommand</uuid></pre>	Sets the command to run after the connection has been stopped.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ beforeStartingCommand</uuid></pre>	Sets the command to run before the connection starts.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ startMode</uuid></pre>	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.

Table E-10 TTerm registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/tterm/connections/ <uuid>/ dependConnectionId</uuid></pre>	This registry key is either used internally or reserved for future use. Do not change this value.
root/ConnectionType/tterm/connections/ <uuid>/ fallBackConnection</uuid>	Sets the fallback connection via its UUID.
<pre>root/ConnectionType/tterm/connections/ <uuid>/ connectionEndAction</uuid></pre>	This registry key is either used internally or reserved for future use. Do not change this value.

view

VMware Horizon View registry keys.

Table E-11 ConnectionType/view registry keys

Registry key	Description
<pre>root/ConnectionType/view/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/view/authorizations/ user/commandLineBox</pre>	If set to 1, an end user has permission to enter command-line arguments in VMware Horizon View Connection Manager.
<pre>root/ConnectionType/view/authorizations/ user/general</pre>	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/view/connections/<uuid>/ ExtraArgs</uuid></pre>	Specifies extra arguments for the VMware Horizon View client. Run view_clienthelp or vmware-viewhelp from an X terminal to see all available arguments.
<pre>root/ConnectionType/view/connections/<uuid>/ SingleSignOn</uuid></pre>	
<pre>root/ConnectionType/view/connections/<uuid>/ afterStartedCommand</uuid></pre>	Sets the command to execute after the connection has been started.
<pre>root/ConnectionType/view/connections/<uuid>/ afterStoppedCommand</uuid></pre>	Sets the command to execute after the connection has been stopped.
<pre>root/ConnectionType/view/connections/<uuid>/ allowBlacklistedDrivers</uuid></pre>	If set to 1, allows VMware Horizon View connections to enable the H.264 feature with AMD open-source graphic drivers. If set to 0, VMware Horizon View connections disable hardware acceleration with blacklisted drivers (such as AMDGPU and Radeon).
<pre>root/ConnectionType/view/connections/<uuid>/ appInMenu</uuid></pre>	If set to 1, all applications for this connection will be displayed in the taskbar menu.
<pre>root/ConnectionType/view/connections/<uuid>/ appOnDesktop</uuid></pre>	If set to 1, all applications for this connection will be displayed on the desktop.
<pre>root/ConnectionType/view/connections/<uuid>/ applicationSize</uuid></pre>	Sets the size in which the VMware Horizon View client will launch applications.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/view/connections/<uuid>/ attachToConsole</uuid></pre>	
<pre>root/ConnectionType/view/connections/<uuid>/ authorizations/user/edit</uuid></pre>	If set to 1, an end user has permission to modify the connection settings for this connection.
<pre>root/ConnectionType/view/connections/<uuid>/ authorizations/user/execution</uuid></pre>	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/view/connections/ <uuid>/ autoHideMenuBar</uuid>	
<pre>root/ConnectionType/view/connections/<uuid>/ autoReconnect</uuid></pre>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/view/connections/ <uuid>/ autoReconnectDelay</uuid>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
root/ConnectionType/view/connections/ <uuid>/ automaticLogin</uuid>	If set to 1, the VMware Horizon View client will attempt to log in automatically if all fields are provided. If set to 0, users have to select Connect manually in the VMware Horizon View client, log in, and select a desktop.
root/ConnectionType/view/connections/ <uuid>/ autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/view/connections/ <uuid>/ autostartDelay</uuid>	Reserved for future use.
root/ConnectionType/view/connections/ <uuid>/ beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
<pre>root/ConnectionType/view/connections/<uuid>/ closeAfterDisconnect</uuid></pre>	If set to 1, the connection is ended after the first desktop is closed. If set to 0, the VMware Horizon View client returns to the desktop selection screen. This is enabled by default to prevent users from accidentally leaving the connection at the desktop selection screen after logging off.
root/ConnectionType/view/connections/ <uuid>/ closeAfterRoaming</uuid>	If set to 1, the VMware connection will be disconnected if it is roamed to another place
root/ConnectionType/view/connections/ <uuid>/</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
<pre>root/ConnectionType/view/connections/<uuid>/ credentialsType</uuid></pre>	Specifies the credential type between anonymous (unauthenticated access), sso (single sign-on), startup (credentials are requested at startup), password (preconfigured user/domain/password), or smartcard (preconfigured smart card).
root/ConnectionType/view/connections/ <uuid>/ dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/connections/ <uuid>/ desktop</uuid>	If specified, the named desktop will launch automatically upon login. By default, if there is only one desktop available, it will launch automatically without needing to be specified.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
root/ConnectionType/view/connections/ <uuid>/ desktopSize</uuid>	Sets the size in which the VMware Horizon View client will launch the desktop.
<pre>root/ConnectionType/view/connections/<uuid>/ directory</uuid></pre>	
root/ConnectionType/view/connections/ <uuid>/ disableMaximizedApp</uuid>	If set to 1, window size settings for maximized applications are disabled.
root/ConnectionType/view/connections/ <uuid>/ domain</uuid>	Sets the domain to provide to View Connection Server. If no domain is specified, the default domain for the server is used.
root/ConnectionType/view/connections/ <uuid>/ enableCDR</uuid>	If set to 1, the Client Drive Redirection add-on is enabled.
root/ConnectionType/view/connections/ <uuid>/ enableMMR</uuid>	If set to 1, the Multimedia Redirection add-on is enabled via the Blast/PCoIP protocol, causing supported codecs played through Windows Media Player to be redirected to the client. This greatly improves full-screen and high-definition video playback for codecs such as WMV9, VC1, and MPEG4. Video is rendered locally using the CPU power.
root/ConnectionType/view/connections/ <uuid>/ enableMediaProvider</uuid>	If set to 1, the VMware Horizon Virtualization Pack for Skype Business component is enabled. This component enables Linux users to redirect Skype for Business calls with the VMware Horizon View Client.
root/ConnectionType/view/connections/ <uuid>/ enableSeamlessWindow</uuid>	If set to 1, the VMware Horizon View client starts applications in seamless window mode.
root/ConnectionType/view/connections/ <uuid>/ enableSingleMode</uuid>	
root/ConnectionType/view/connections/ <uuid>/ extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/view/connections/ <uuid>/ extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/view/connections/ <uuid>/</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/view/connections/ <uuid>/</uuid>	If set to 1, the VMware Horizon View client launches in full screen mode when started.
root/ConnectionType/view/connections/ <uuid>/ hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/view/connections/ <uuid>/ hideMenuBar</uuid>	If set to 1, the top menu bar within the desktop is hidden. This bar is used to manage remote devices and start other desktops.
root/ConnectionType/view/connections/ <uuid>/ iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/view/connections/ <uuid>/ isInMenu</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
root/ConnectionType/view/connections/ <uuid>/ label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to Default Connection and does not display in the UI.
root/ConnectionType/view/connections/ <uuid>/ lockServer</uuid>	If set to 1, end users are prevented from changing the server address.
root/ConnectionType/view/connections/ <uuid>/ loginfields/domain</uuid>	If set to 1, the Domain field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/ <uuid>/ loginfields/password</uuid>	If set to 1, the Password field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/ <uuid>/ loginfields/rememberme</uuid>	If set to 1, the Remember me check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden.
root/ConnectionType/view/connections/ <uuid>/ loginfields/server</uuid>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/view/connections/ <uuid>/ loginfields/showpassword</uuid>	If set to 1, the Show password check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden.
root/ConnectionType/view/connections/ <uuid>/ loginfields/smartcard</uuid>	If set to 1, the Smart card login check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden. This check box might not appear if no smart card is detected, even if this option is enabled.
root/ConnectionType/view/connections/ <uuid>/ loginfields/username</uuid>	If set to 1, the User Name field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/ <uuid>/ networkCondition</uuid>	Allows the selection of the network conditions for the best experience.
root/ConnectionType/view/connections/ <uuid>/ password</uuid>	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/view/connections/ <uuid>/ preferredProtocol</uuid>	Sets the preferred protocol.
root/ConnectionType/view/connections/ <uuid>/ printerMapping</uuid>	If set to 1, all printers defined locally via CUPS are redirected to the remote host via ThinPrint. If set to 0, the printer mapping is disabled. If set to 2, the USB printers are redirected as configured in USB Manager.
root/ConnectionType/view/connections/ <uuid>/ saveCredentials</uuid>	
root/ConnectionType/view/connections/ <uuid>/ sendCtrlAltDelToVM</uuid>	
root/ConnectionType/view/connections/ <uuid>/ server</uuid>	Sets the address of the remote host to connect to. This is typically a URL such as http://server.domain.com.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/view/connections/<uuid>/ sessionEndAction</uuid></pre>	
root/ConnectionType/view/connections/ <uuid>/ singleDesktop</uuid>	
root/ConnectionType/view/connections/ <uuid>/ smartcard</uuid>	If set to 1, locally-attached smart cards are forwarded to the remote host, allowing them to be used by applications on the remote host. This only enables smart card login for the remote host, not for View Connection Server.
root/ConnectionType/view/connections/ <uuid>/ startMode</uuid>	If set to the default ${\tt focus}$ and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/view/connections/ <uuid>/ usbAutoConnectAtStartUp</uuid>	
root/ConnectionType/view/connections/ <uuid>/ usbAutoConnectOnInsert</uuid>	
root/ConnectionType/view/connections/ <uuid>/ useCurrentViewConfig</uuid>	If set to 1, the HP scripts do not create a new /etc/vmware/config file, and the VMware Horizon View client uses the current /etc/vmware/config file.
root/ConnectionType/view/connections/ <uuid>/ username</uuid>	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
<pre>root/ConnectionType/view/connections/<uuid>/ viewSecurityLevel</uuid></pre>	If set to Refuse insecure connections, the VMware Horizon View client will not allow a user to connect to View Connection Server if the server's SSL certificate is invalid. If set to Warn, the VMware Horizon View client will display a warning if th server's certificate is not able to be verified, and if the certificate is self-signed or expired, the user still will not be allowed to connect of set to Allow all connections, the server certificate will not be verified and connections to any server will be allowed.
root/ConnectionType/view/connections/ <uuid>/ waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/attachToConsole</uuid>	
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/audioLatency</uuid>	Sets the average milliseconds of offset between the audio stream and the display of corresponding video frames after decoding.
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/clipboardExtension</uuid>	If set to 1, clipboard functionality is enabled between different RDP sessions and between RDP sessions and the local system.
<pre>root/ConnectionType/view/connections/<uuid>/ xfreerdpOptions/colorDepth</uuid></pre>	This setting is deprecated. It is used to reduce the color depth of the connection below that of the native desktop resolution. Frequently, this has been used to reduce network bandwidth. Reducing color depth to a level not supported by the video driver can cause screen corruption or launch failures.
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/compression</uuid>	If set to 1, compression of RDP data sent between the client and the server is enabled.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/disableMMRwithRFX</uuid>	If set to 1, multimedia redirection is disabled if a valid RemoteFX session is established.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/enableMMR</uuid>	If set to 1, the Multimedia Redirection add-on is enabled, causing supported codecs played through Windows Media Player to be redirected to the client.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/frameAcknowledgeCount</uuid>	Sets the number of video frames the server can push without waiting for acknowledgement from the client. Lower numbers result in a more responsive desktop but lower frame rate. If set to 0, frame acknowledgement is not used in the client-server interactions.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/general/sendHostname</uuid>	If set to hostname, the system hostname is sent to the remote host. This is typically used to identify the thin client associated with a particular RDP session. The sent hostname can be overridden using sendHostname in the connection-specific settings. If set to mac, the MAC address of the first available network adapter is sent instead of the hostname.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/hostnameType</uuid>	If set to hostname, the system hostname is sent to the remote host. This is typically used to identify the thin client associated with a particular RDP session. The sent hostname can be overriden using sendHostname in the connection-specific settings. If set to mac, the MAC address of the first available network adapter is sent instead of the hostname.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/loadBalanceInfo</uuid>	This value is the load balancing cookie sent for brokering purposes to the server upon connection and corresponds to the loadbalanceinfo field in the .rdp file. By default, the value is empty.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/mouseMotionEvents</uuid>	If set to 0, mouse motion events are not sent to the server. This can prevent some user feedback such as tooltips from functioning properly.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/offScreenBitmaps</uuid>	If set to 0, off-screen bitmaps are disabled. This can increase performance slightly but will cause blocks of the screen to update asynchronously, causing screen transitions to update non-uniformly.
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/perfFlagDesktopComposition</uuid>	If set to 1, desktop composition (such as translucent borders) is allowed if supported by the server. Turning off desktop composition can improve performance for low-bandwidth connections. Generally, this only affects RemoteFX. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagFontSmoothing</uuid>	If set to 1, font smoothing is allowed if supported by the server and enabled. Turning off font smoothing can improve performance on low-bandwidth connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoCursorSettings</uuid>	If set to 1, cursor blinking is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoCursorShadow</uuid>	If set to 1, mouse cursor shadows are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoMenuAnimations</uuid>	If set to 1, menu animations are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoTheming</uuid>	If set to 1, user interface themes are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoWallpaper</uuid>	If set to 1, the desktop wallpaper is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/perfFlagNoWindowDrag</uuid>	If set to 1, full-content window dragging is disabled, which can improve performance on low-bandwidth RDP connections. The window outline is used instead. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/portMapping</uuid>	If set to 1, the following serial and parallel ports are redirected to the remote host: ttyS0, ttyS1, ttyS2, ttyS3, ttyUSB0, lp0.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/printerMapping</uuid>	If set to 1, all printers defined locally via CUPS are redirected to the remote host.
root/ConnectionType/freerdp/connections/ <uuid>/rdp6Buffering</uuid>	If set to 1, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
root/ConnectionType/freerdp/connections/ <uuid>/rdp8Codecs</uuid>	If set to 1, RDP 8 codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/rdpEncryption</uuid>	If set to 1, standard RDP encryption is used to encrypt all data between the client and the server.
root/ConnectionType/freerdp/connections/ <uuid>/rdpH264Codec</uuid>	If set to 1, RDP 8 H.264 codecs are used if available. This setting has known visual errors, particularly in multi-monitor configurations, and should be considered experimental and unsupported. Enabling this setting simply advises the server that the thin client supports H.264 for desktop display. The server must also support H.264, and the server makes the final decision on what codecs are used. This setting affects only the desktop codecs. It does not affect multimedia redirection codecs.
root/ConnectionType/freerdp/connections/ <uuid>/rdpProgressiveCodec</uuid>	If set to 1, RDP 8 progressive codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 progressive codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/ <uuid>/redirectPreference</uuid>	For redirection, the RDP client is given several destination possibilities. It normally tries them in the following order: FQDN, Primary IP, IP List, NetBIOS. If FQDN is not desired, one of the alternatives can be tried first by setting this registry key. If the specified method does not work, the RDP client falls back to the original order. A setting of auto forces the original order.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/remoteFx</uuid>	If set to 1, RemoteFX is used if available.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/sendHostname</uuid>	Sets the thin client hostname that is sent to the remote host. If left blank, the system hostname is sent. The registry key root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/general/sendHostname must be set to hostname for this key to be used.</uuid>

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/sound</uuid>	If set to Bring to this computer, sound is redirected from the remote host to the client using a standard virtual channel. If set to Leave at remote computer, sound is left at the remote host. This can be useful when using a redirected USB audio device. If set to any other value, audio is disabled. Generally, HP recommends setting this value to Bring to this computer and not redirecting USB playback devices to the remote host. This will improve audio quality and ensure that client audio redirected via other virtual channels (such as Multimedia Redirection) matches local audio settings.
root/ConnectionType/view/connections/ <uuid>/xfreerdpOptions/timeoutError</uuid>	Sets the number of milliseconds to wait after losing the connection before giving up on reconnecting with the server. If set to 0, reconnection is attempted forever.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/timeoutRecovery</uuid>	Sets the number of milliseconds to wait after losing the connection for networking to recover without trying a forced reconnect.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/timeoutWarning</uuid>	Sets the number of milliseconds to wait after losing the connection before warning the user that the connection has been lost.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/timeoutWarningDialog</uuid>	If set to 1, when an end-to-end connection drop is detected, a dialog is displayed and the screen will turn grayscale. Otherwise, messages are written to the connection log and the session freezes.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/timeoutsEnabled</uuid>	If set to 1, end-to-end connection health checks are done.
coot/ConnectionType/view/connections/ <uuid>/</uuid>	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto.
	NOTE: There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
root/ConnectionType/view/connections/ <uuid>/ xfreerdpOptions/xkbLayoutId</uuid>	Sets an XKB layout ID for bypassing the system keyboard. To see the list of available IDs, enter the following command in an X terminal: $xfreerdpkbd-list$.
root/ConnectionType/view/coreSettings/ USBrelevant	Indicates if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/view/coreSettings/ appName	Sets the internal application name to use for this connection type This key should not need to be modified.
root/ConnectionType/view/coreSettings/ className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/view/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/view/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/view/coreSettings/ icon16Path	Sets the path to the 16 × 16 pixel icon for this application.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/view/coreSettings/ icon32Path</pre>	Sets the path to the 32 \times 32 pixel icon for this application.
root/ConnectionType/view/coreSettings/ icon48Path	Sets the path to the 48 × 48 pixel icon for this application.
root/ConnectionType/view/coreSettings/ iconActive	Reserved for future use.
root/ConnectionType/view/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/view/coreSettings/ priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/view/coreSettings/ serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
<pre>root/ConnectionType/view/coreSettings/ stopProcess</pre>	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument <code>stop</code> to terminate the process gracefully.
root/ConnectionType/view/coreSettings/tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/view/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by appName. This key should not need to be modified.
<pre>root/ConnectionType/view/coreSettings/ wrapperScript</pre>	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/view/coreSettings/ wrapperScriptGeneration	Lets Connection Manager know what type of parameters to pass to the wrapper script.
root/ConnectionType/view/general/ enableComPortRedirection	
root/ConnectionType/view/general/rdpOptions	Options specified here will be forwarded directly to the RDP client if RDP is used as the display protocol for the VMware Horizon View connection. To see a full list of options, enter the following command in an X terminal: rdesktophelp.
root/ConnectionType/view/gui/viewManager/ name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/gui/viewManager/ status	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-11 ConnectionType/view registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/view/gui/viewManager/ title</pre>	This registry key is either used internally or reserved for future use. The value should not be changed.
<pre>root/ConnectionType/view/gui/viewManager/ widgets/autostart</pre>	Controls the state of the Auto start priority widget in VMware Horizon View Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/view/gui/viewManager/ widgets/fallBackConnection</pre>	Controls the state of the Fallback Connection widget in VMware Horizon View Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/view/gui/viewManager/ widgets/label</pre>	Controls the state of the Name widget in VMware Horizon View Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

AVD

AVD registry keys.

Table E-12 AVD registry keys

Registry key	Description
<pre>root/ConnectionType/wvd/connections/<uuid>/ loginfields/server</uuid></pre>	If set to 1, the Server field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden. If set to 3, system settings take precedence.
<pre>root/ConnectionType/wvd/connections/<uuid>/ loginfields/username</uuid></pre>	If set to 1, the User Name field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden. If set to 3, system settings take precedence.
root/ConnectionType/wvd/connections/ <uuid>/ loginfields/password</uuid>	If set to 1, the Password field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden. If set to 3, system settings take precedence.
root/ConnectionType/wvd/connections/ <uuid>/ loginfields/showPassword</uuid>	If set to 1, the Show password button is shown in the login dialog for the connection. If set to 2, the button is shown but disabled. If set to 0, the button is hidden. If set to 3, system settings take precedence. For ThinPro 6.2 and later, use the systemwide security setting instead.
<pre>root/ConnectionType/wvd/connections/<uuid>/ loginfields/domain</uuid></pre>	If set to 1, the <code>Domain</code> field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden. If set to 3, system settings take precedence.
root/ConnectionType/wvd/connections/ <uuid>/ loginfields/smartcard</uuid>	If set to 1, the Smart card login check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden. If set to 3, system settings take precedence. This check box might not appear if no smart card is detected, even if this option is enabled.
<pre>root/ConnectionType/wvd/connections/<uuid>/ loginfields/domainAwareUsername</uuid></pre>	If set to 1, the user name is domain aware, whatever the visibility of the domain field. Typically, the user name can be an email address.

Table E-12 AVD registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/wvd/connections/<uuid>/ loginfields/rememberme</uuid></pre>	If set to 1, the Remember me check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden. If set to 3, system settings take precedence.
<pre>root/ConnectionType/wvd/connections/<uuid>/ seamlessWindow</uuid></pre>	If set to 1, window decorations are disabled, which can be useful in a multi-monitor configuration to allow the connection to be set to the size of the primary monitor or full desktop.
root/ConnectionType/wvd/connections/ <uuid>/ windowType</uuid>	This setting is ignored for Smart Zero.
root/ConnectionType/wvd/connections/ <uuid>/ windowSizeWidth</uuid>	Width of the fixed window. This setting is ignored for Smart Zero.
root/ConnectionType/wvd/connections/ <uuid>/ windowSizeHeight</uuid>	Height of the fixed window. This setting is ignored for Smart Zero.
root/ConnectionType/wvd/connections/ <uuid>/ displayScalePercent</uuid>	Amount to scale display in percent. Range is from 100% to 500%.
<pre>root/ConnectionType/wvd/connections/<uuid>/ autofillCredentials</uuid></pre>	If set to 1, the credentials are automatically set in the Microsoft authentication dialog.
<pre>root/ConnectionType/wvd/connections/<uuid>/ rememberMe</uuid></pre>	If set to 1, the credentials are automatically set in the Microsoft authentication dialog.
root/ConnectionType/wvd/connections/ <uuid>/ headlessMode</uuid>	If set to 1, an attempt is made to authenticate with the available credentials without showing the Microsoft authentication dialog.
root/ConnectionType/wvd/connections/ <uuid>/ autostartWorkspace</uuid>	Specifies the workspace from which a resource is to be started automatically. Not required for a resource to start automatically.
root/ConnectionType/wvd/connections/ <uuid>/ autostartResource</uuid>	Specifies a resource to be started automatically.
root/ConnectionType/wvd/connections/ <uuid>/ autoCloseAvdFeed</uuid>	If set to 1, the AVD feed window is closed automatically when a resource is closed.
root/ConnectionType/wvd/connections/ <uuid>/ disableMenuBar</uuid>	If set to 1, the menu bar is not shown in the session window.
root/ConnectionType/wvd/connections/ <uuid>/</uuid>	If set to 1, the drop-down menu that appears in full-screen mode will not be present.
root/ConnectionType/wvd/connections/ <uuid>/ dropdownClose</uuid>	If set to 1, the drop-down menu will have a button to close the window.
root/ConnectionType/wvd/connections/ <uuid>/ dropdownMaximize</uuid>	If set to 1, the drop-down menu will have a button to maximize the window.
root/ConnectionType/wvd/connections/ <uuid>/dropdownMinimize</uuid>	If set to 1, the drop-down menu will have a button to minimize the window.
root/ConnectionType/wvd/connections/ <uuid>/ dropdownMinimize</uuid>	If set to 1, the drop-down menu will have a button to minimize the window.

Table E-12 AVD registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/wvd/connections/<uuid>/ dropdownCtrlAltD</uuid></pre>	If set to 1, the drop-down menu will have Ctrl +Alt + Delete as a keyboard shortcut.
root/ConnectionType/wvd/connections/ <uuid>/ localTimezone</uuid>	If set to 1, the session time zone is set based on the local system time zone.
root/ConnectionType/wvd/connections/ <uuid>/ audioOut</uuid>	If set to 1, audio playback through AVD connections is enabled.
root/ConnectionType/wvd/connections/ <uuid>/ audioIn</uuid>	If set to 1, audio recording (microphone) through AVD connections is enabled.
root/ConnectionType/wvd/connections/ <uuid>/ filesystem</uuid>	If 0, file system redirection is disabled; if 1, the list in filesystemList is redirected; if 2, only removable media file systems are redirected.
<pre>root/ConnectionType/wvd/connections/<uuid>/ filesystemList</uuid></pre>	A comma-separated list of redirected directories when filesystem is 1.
root/ConnectionType/wvd/connections/ <uuid>/ scRedirection</uuid>	If set to 1, smartcards can be accessed in this AVD connection.
root/ConnectionType/wvd/connections/ <uuid>/ clipboard</uuid>	If O, AVD clipboards are not shared with the ThinPro; if 1, the clipboard is shared with all ThinPro applications; if 2, the clipboard is shared only between AVD sessions.
root/ConnectionType/wvd/connections/ <uuid>/ virtual</uuid>	If set to 1, the AVD virtual channel is enabled.
root/ConnectionType/wvd/connections/ <uuid>/ camera</uuid>	If set to 1, cameras can be accessed in AVD connections.
root/ConnectionType/wvd/connections/ <uuid>/ ExtraArgs</uuid>	Specifies extra arguments for the AVD-client. Run wvd-feedhelp from an X terminal to see all available arguments.
root/ConnectionType/wvd/connections/ <uuid>/ authorizations/user/edit</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/wvd/connections/ <uuid>/ authorizations/user/execution</uuid>	If set to 1, an end user has permission to run this connection.
root/ConnectionType/wvd/connections/ <uuid>/ waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available so that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/wvd/connections/ <uuid>/ autoReconnect</uuid>	If set to 1, the connection is restarted when it is closed or disconnected.
root/ConnectionType/wvd/connections/ <uuid>/ autostartDelay</uuid>	Sets the amount of time in seconds to wait before starting the connection after the system starts. The default of 0 causes the connection to start immediately. This setting takes effect only when autostart is set to 1.
<pre>root/ConnectionType/wvd/connections/<uuid>/ autoReconnectDelay</uuid></pre>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 causes the connection to reconnect immediately. This setting only takes effect only when autoReconnect is set to 1.

Table E-12 AVD registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/wvd/connections/<uuid>/ forbiddenFiles</uuid></pre>	This registry key works only when Allow connections to manage their own settings is selected in the Web Browser Connection General Settings Manager. The files listed in this registry key's value are removed before the Web Browser connection is started. The file names should be separated by a comma, and a wildcard is supported. For example: *.rdf,cookies.sqlite
<pre>root/ConnectionType/wvd/connections/<uuid>/ extraEnvValues/<uuid>/key</uuid></uuid></pre>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/wvd/connections/ <uuid>/ extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/wvd/connections/ <uuid>/ extraEnvValues/<uuid>/credentialsType</uuid></uuid>	Specifies whether credentials are to be supplied by Single Sign- On, requested at startup, or a supplied as a preconfigured user, domain, and password.
<pre>root/ConnectionType/wvd/connections/<uuid>/ username</uuid></pre>	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
<pre>root/ConnectionType/wvd/connections/<uuid>/ domain</uuid></pre>	If the credentialsType is password, this setting supplies the default domain to the remote host during login. If a domain is not specified, the default domain for the remote host will be used.
root/ConnectionType/wvd/connections/ <uuid>/ SingleSignOn</uuid>	If enabled, the user, domain, and password combination of the RDP connection is saved to be used to unlock the screensaver.
<pre>root/ConnectionType/wvd/connections/<uuid>/ password</uuid></pre>	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/wvd/connections/ <uuid>/ workspaceURL</uuid>	Sets the workspace URL to provide to wvd. If no URL is specified, the default URL for the AVD is used.
root/ConnectionType/wvd/connections/ <uuid>/ allowInsecureConnections</uuid>	If set to 1, the insecure connection will be allowed to proceed.
<pre>root/ConnectionType/wvd/connections/<uuid>/ securityLevelclcl</uuid></pre>	Sets the certificate security level. If set to 0, all connections are allowed. If set to 1, remembered hosts are checked, and a warning dialog is shown if verification is not passed. If set to 2, remembered hosts are not checked, and a warning dialog is shown if verification is not passed. If set to 3, all insecure connections are refused.
root/ConnectionType/wvd/connections/ <uuid>/</uuid>	This registry key is either used internally or reserved for future use. Do not change this value.
<pre>root/ConnectionType/wvd/connections/<uuid>/ autostart</uuid></pre>	If set to a value of 1–5, the connection starts automatically after the system starts, with the value of 1 having the highest priority.
<pre>root/ConnectionType/wvd/connections/<uuid>/ dependConnectionId</uuid></pre>	This registry key is either used internally or reserved for future use. Do not change this value.
root/ConnectionType/wvd/connections/ <uuid>/ fallBackConnection</uuid>	Sets the fallback connection via its UUID.

Table E-12 AVD registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/wvd/connections/<uuid>/ hasDesktopIcon</uuid></pre>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/wvd/connections/ <uuid>/ startMode</uuid>	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/wvd/connections/ <uuid>/ label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to Default Connection and does not display in the UI.
<pre>root/ConnectionType/wvd/connections/<uuid>/ iconPosition</uuid></pre>	For pinned desktop icons, an x,y pair. For floating icons, leave this string blank.
<pre>root/ConnectionType/wvd/connections/<uuid>/ afterStartedCommand</uuid></pre>	Sets the command to run after the connection starts.
<pre>root/ConnectionType/wvd/connections/<uuid>/ afterStoppedCommand</uuid></pre>	Sets the command to run after the connection stops.
<pre>root/ConnectionType/wvd/connections/<uuid>/ beforeStartingCommand</uuid></pre>	Sets the command to run before the connection starts.
<pre>root/ConnectionType/wvd/connections/<uuid>/ connectionEndAction</uuid></pre>	This registry key is either used internally or reserved for future use. Do not change this value.

xdmcp

XDMCP registry keys.

Table E-13 XDMCP registry keys

Registry key	Description
<pre>root/ConnectionType/xdmcp/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/xdmcp/authorizations/ user/general</pre>	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
<pre>root/ConnectionType/xdmcp/connections/ <uuid>/address</uuid></pre>	Sets the hostname or IP address to connect to.
root/ConnectionType/xdmcp/connections/ <uuid>/afterStartedCommand</uuid>	Sets the command to execute after the connection has been started.
root/ConnectionType/xdmcp/connections/ <uuid>/afterStoppedCommand</uuid>	Sets the command to execute after the connection has been stopped.
<pre>root/ConnectionType/xdmcp/connections/ <uuid>/authorizations/user/edit</uuid></pre>	If set to 1, an end user has permission to modify the connection settings for this connection.
<pre>root/ConnectionType/xdmcp/connections/ <uuid>/authorizations/user/execution</uuid></pre>	If set to 1, an end user has permission to execute this connection

Table E-13 XDMCP registry keys (continued)

Registry key	Description
root/ConnectionType/xdmcp/connections/ <uuid>/autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/xdmcp/connections/ <uuid>/autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/xdmcp/connections/ <uuid>/beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/xdmcp/connections/ <uuid>/color</uuid>	Sets the color depth of the display for the connection.
root/ConnectionType/xdmcp/connections/ <uuid>/connectionEndAction</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/ <uuid>/coord</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/ <uuid>/dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/ <uuid>/extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/xdmcp/connections/ <uuid>/extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/xdmcp/connections/ <uuid>/fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/xdmcp/connections/ <uuid>/fontServer</uuid>	Sets the address of the font server to use. The registry key useFontServer must also be set to 1.
root/ConnectionType/xdmcp/connections/ <uuid>/hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/xdmcp/connections/ <uuid>/iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/xdmcp/connections/ <uuid>/isInMenu</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/ <uuid>/label</uuid>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to <code>Default Connection</code> and does not display in the UI.
root/ConnectionType/xdmcp/connections/ <uuid>/loginfields/server</uuid>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/xdmcp/connections/ <uuid>/refreshRate</uuid>	Sets the refresh rate of the display for the connection.
root/ConnectionType/xdmcp/connections/ <uuid>/startMode</uuid>	If set to the default \mathtt{focus} and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.

Table E-13 XDMCP registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/xdmcp/connections/ <uuid>/type</uuid></pre>	Sets the XDMCP connection type. If set to chooser, all available hosts are listed and the user can select which one to connect to. If set to query, an XDMCP request is sent to the specified host directly. If set to broadcast, all available hosts are listed and the first one is connected to automatically.
root/ConnectionType/xdmcp/connections/ <uuid>/useFontServer</uuid>	If set to 1, the font server is enabled. If set to 0, the local font is used.
<pre>root/ConnectionType/xdmcp/connections/ <uuid>/waitForNetwork</uuid></pre>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/xdmcp/connections/ <uuid>/windowSize</uuid>	Sets the window size of the connection.
root/ConnectionType/xdmcp/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/xdmcp/coreSettings/ appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/audio	This registry key is either used internally or reserved for future use. The value should not be changed.
<pre>root/ConnectionType/xdmcp/coreSettings/ className</pre>	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/ desktopButton	This registry key is either used internally or reserved for future use. The value should not be changed.
<pre>root/ConnectionType/xdmcp/coreSettings/ editor</pre>	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/ generalSettingsEditor	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
<pre>root/ConnectionType/xdmcp/coreSettings/ icon16Path</pre>	Sets the path to the 16 × 16 pixel icon for this application.
<pre>root/ConnectionType/xdmcp/coreSettings/ icon32Path</pre>	Sets the path to the 32 \times 32 pixel icon for this application.
<pre>root/ConnectionType/xdmcp/coreSettings/ icon48Path</pre>	Sets the path to the 48 × 48 pixel icon for this application.
<pre>root/ConnectionType/xdmcp/coreSettings/ iconActive</pre>	Reserved for future use.
root/ConnectionType/xdmcp/coreSettings/label	Sets the name to display for this connection type in the UI.

Table E-13 XDMCP registry keys (continued)

Registry key	Description
root/ConnectionType/xdmcp/coreSettings/ priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/xdmcp/coreSettings/ serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
root/ConnectionType/xdmcp/coreSettings/ stopProcess	Sets the behavior that should occur when <code>connection-mgr</code> stop is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument <code>stop</code> to terminate the process gracefully.
root/ConnectionType/xdmcp/coreSettings/tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/xdmcp/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by appName. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connectior settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/xdmcp/gui/XdmcpManager/ name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/ status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/ title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/address	Controls the state of the Address widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/autoReconnect	Controls the state of the Auto reconnect widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/autostart	Controls the state of the Auto start priority widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/color	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-13 XDMCP registry keys (continued)

Registry key	Description
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/fontServer	Controls the state of the Font server widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/label	Controls the state of the Name widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/refreshRate	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/type	Controls the state of the Type widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/useFontServer	Controls the state of the Use font server widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/waitForNetwork	Controls the state of the Wait for network before connecting widget in XDMCP Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/ widgets/windowSize	This registry key is either used internally or reserved for future use. The value should not be changed.

xen

ConnectionType/xen registry keys.

Table E-14 ConnectionType/xen registry keys

Registry key	Description
<pre>root/ConnectionType/xen/authorizations/ user/add</pre>	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/authorizations/user/ general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/xen/connections/ <uuid>/ SingleSignOn</uuid>	If set to 1, the connection shares credentials with the screen saver.
root/ConnectionType/xen/connections/ <uuid>/ address</uuid>	Sets the address of the remote host to connect to. This is typicall a URL such as http://server.domain.com.
root/ConnectionType/xen/connections/ <uuid>/</uuid>	Sets the command to execute after the connection has been started.
root/ConnectionType/xen/connections/ <uuid>/</uuid>	Sets the command to execute after the connection has been stopped.
root/ConnectionType/xen/connections/ <uuid>/ allowSaveConnInfo</uuid>	
root/ConnectionType/xen/connections/ <uuid>/ appInMenu</uuid>	If set to 1, all applications for the connection are displayed in the taskbar menu.
root/ConnectionType/xen/connections/ <uuid>/ appInWindowOrOnDesktop</uuid>	If set to 1 and appOnDesktop is enabled, all applications for the connection are displayed in a broker window. If set to 0, the applications for the connection are displayed directly on the desktop.
root/ConnectionType/xen/connections/ <uuid>/ appOnDashboard</uuid>	If set to 1, all applications for the connection will be displayed on the taskbar.
root/ConnectionType/xen/connections/ <uuid>/ appOnDesktop</uuid>	If set to 1, all applications for the connection will be displayed on the desktop.
root/ConnectionType/xen/connections/ <uuid>/</uuid>	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/xen/connections/ <uuid>/ authorizations/user/execution</uuid>	If set to 1, an end user has permission to execute this connection
root/ConnectionType/xen/connections/ <uuid>/ autoLaunchSingleApp</uuid>	If set to 1, and if only a single published application or desktop is returned by the Citrix server, that resource will be launched automatically.
root/ConnectionType/xen/connections/ <uuid>/ autoReconnect</uuid>	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/xen/connections/ <uuid>/ autoReconnectAppsOnLogin</uuid>	If set to 1, the system will attempt to reconnect any active or disconnected Citrix sessions upon initial login.
root/ConnectionType/xen/connections/ <uuid>/ autoReconnectDelay</uuid>	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.
root/ConnectionType/xen/connections/ <uuid>/ autoRefreshInterval</uuid>	Controls the amount of time in seconds before the resources are cleared and refreshed again from the server. Set to -1 to disable. It is normally not required to frequently refresh the resources from the server.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/connections/ <uuid>/ autoStartDesktop</uuid>	If set to 1 and if autoStartResource is empty, the first desktop to become available when the connection is started will be launched automatically.
root/ConnectionType/xen/connections/ <uuid>/ autoStartResource</uuid>	Sets the name of the desktop or application to start automatically when the connection is launched.
root/ConnectionType/xen/connections/ <uuid>/ autoStartWithGuessing</uuid>	If set to 1, the connection tries to launch autoStartDesktop or autoStartResource first. If the connection cannot launch either successfully, it tries to launch another resource by guessing.
root/ConnectionType/xen/connections/ <uuid>/ autostart</uuid>	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/xen/connections/ <uuid>/ autostartDelay</uuid>	Reserved for future use.
root/ConnectionType/xen/connections/ <uuid>/ beforeStartingCommand</uuid>	Sets the command to execute before the connection starts.
root/ConnectionType/xen/connections/ <uuid>/ connectionMode</uuid>	Sets the Citrix connection mode for the connection.
root/ConnectionType/xen/connections/ <uuid>/ connectionStopAction</uuid>	Defines the action to be done when the connection is ended from Connection Manager. The available options are disconnect and logoff.
root/ConnectionType/xen/connections/ <uuid>/ continueWithNewPassword</uuid>	If set to 1, after resetting the password, the connection continues to launch with the new password. If set to 0, after resetting the password, the current connection closes.
root/ConnectionType/xen/connections/ <uuid>/</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/connections/ <uuid< <br="">credentialsType</uuid<>	Specifies the credential type between anonymous (unauthenticated access), sso (single sign-on), startup (credentials are requested at startup), password (preconfigured user/domain/password), or smartcard (preconfigured smart card).
root/ConnectionType/xen/connections/ <uuid>/ dependConnectionId</uuid>	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/connections/ <uuid>/ domain</uuid>	Sets the domain to provide to the XenDesktop server. If no domain is specified, the default domain for the server is used.
root/ConnectionType/xen/connections/ <uuid>/ enableRSAToken</uuid>	CAUTION: This functionality is unsupported.
CHAD LONGII ONCII	If set to 1, the user will be prompted before connecting for a security token value to use when authenticating with NetScaler Gateway.
root/ConnectionType/xen/connections/ <uuid>/ extraEnvValues/<uuid>/key</uuid></uuid>	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/xen/connections/ <uuid>/ extraEnvValues/<uuid>/value</uuid></uuid>	Sets the value of an extra environment variable for use with the connection.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/connections/ <uuid>/ fallBackConnection</uuid>	Sets the fallback connection via its UUID.
root/ConnectionType/xen/connections/ <uuid>/ folder</uuid>	
root/ConnectionType/xen/connections/ <uuid>/ forceHttps</uuid>	If set to 1, only HTTPS connections are allowed.
root/ConnectionType/xen/connections/ <uuid>/ fullscreen</uuid>	If set to 1, the Citrix client launches in full-screen mode when started.
root/ConnectionType/xen/connections/ <uuid>/ hasDesktopIcon</uuid>	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/xen/connections/ <uuid>/ iconPosition</uuid>	Sets the x,y coordinates of a pinned desktop icon. If not specified, the icon floats.
root/ConnectionType/xen/connections/ <uuid>/ ignoreCertCheck</uuid>	If set to 1, certificate checks are ignored for the connection.
<pre>root/ConnectionType/xen/connections/<uuid>/ label</uuid></pre>	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to <code>Default Connection</code> and does not display in the UI.
root/ConnectionType/xen/connections/ <uuid>/ logOnMethod</uuid>	
root/ConnectionType/xen/connections/ <uuid>/ loginfields/domain</uuid>	If set to 1, the Domain field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/password</uuid>	If set to 1, the Password field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/rememberme</uuid>	If set to 1, the Remember me check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/server</uuid>	If set to 1, the Server box is shown in the login dialog for the connection. If set to 2, the box is shown but disabled. If set to 0, the box is hidden. If set to 3, the system settings are used.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/showpassword</uuid>	If set to 1, the Show password button is shown in the login dialog for the connection. If set to 2, the button is shown but disabled. If set to 0, the button is hidden.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/smartcard</uuid>	If set to 1, the Smart card login check box is shown in the login dialog for the connection. If set to 2, the check box is shown but disabled. If set to 0, the check box is hidden. This check box might not appear if no smart card is detected, even if this option is enabled.
root/ConnectionType/xen/connections/ <uuid>/ loginfields/username</uuid>	If set to 1, the User Name field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/xen/connections/<uuid>/ password</uuid></pre>	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/xen/connections/ <uuid>/ resListRequest</uuid>	If set to 1, a connection only lists the resources without launching them or downloading icons.
root/ConnectionType/xen/connections/ <uuid>/ saveNewUrl</uuid>	This is an internal value. If set to ${\tt ToBeAsked}$, the script prompts the user. If set to ${\tt Auto}$, the script does not prompt the user, and whether the URL is saved depends on the case. If set to ${\tt Yes}$, the user asked to save the new URL. If set to ${\tt No}$, the user asked to not save the new URL.
root/ConnectionType/xen/connections/ <uuid>/ savePassword</uuid>	
root/ConnectionType/xen/connections/ <uuid>/ smartCardModuleKey</uuid>	Specifies the security module to use for a smart card connection.
root/ConnectionType/xen/connections/ <uuid>/ startMode</uuid>	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/xen/connections/ <uuid>/ subscribedOnly</uuid>	If set to 1, only subscribed resources for the connection are displayed.
root/ConnectionType/xen/connections/ <uuid>/ unplugSmartCardAction</uuid>	Sets the action to perform when a smart card is unplugged during a connection. disconnect will disconnect the current session. close will close all the opened resources. noaction will do nothing.
root/ConnectionType/xen/connections/ <uuid>/ useCurrentCitrixConfig</uuid>	
root/ConnectionType/xen/connections/ <uuid>/ username</uuid>	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/xen/connections/ <uuid>/ waitForNetwork</uuid>	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/xen/coreSettings/ USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/xen/coreSettings/appName	Sets the internal application name to use for this connection type This key should not need to be modified.
root/ConnectionType/xen/coreSettings/ autoLogoutDelayAfterLaunch	This setting applies to Citrix servers with multiple published resources. If less than 0, no auto-logout is performed. Otherwise, this setting dictates the number of seconds between the closing of the last Xen published resource and when the user is logged out automatically and returned to the initial login screen. Citrix process delays might extend the auto-logout time.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
<pre>root/ConnectionType/xen/coreSettings/ autoLogoutDelayBeforeLaunch</pre>	This setting applies to Citrix servers with multiple published resources. If less than 0, no auto-logout is performed. Otherwise, this setting dictates the number of seconds allowed to pass while no applications are launched before the user is logged out automatically and returned to the initial login screen. Citrix process delays might extend the auto-logout time.
<pre>root/ConnectionType/xen/coreSettings/ className</pre>	Sets the internal application class name to use for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/xen/coreSettings/ connectionUtil</pre>	Sets the Citrix connection utility for the connection.
<pre>root/ConnectionType/xen/coreSettings/ credsCache</pre>	Specifies whether the Connection Manager caches the credentials for further use.
root/ConnectionType/xen/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
<pre>root/ConnectionType/xen/coreSettings/ generalSettingsEditor</pre>	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/icon	Specifies the icon from the icon theme set to use for this connection.
root/ConnectionType/xen/coreSettings/ icon16Path	Sets the path to the 16 × 16 pixel icon for this application.
<pre>root/ConnectionType/xen/coreSettings/ icon32Path</pre>	Sets the path to the 32 × 32 pixel icon for this application.
<pre>root/ConnectionType/xen/coreSettings/ icon48Path</pre>	Sets the path to the 48 × 48 pixel icon for this application.
<pre>root/ConnectionType/xen/coreSettings/ iconActive</pre>	Reserved for future use.
root/ConnectionType/xen/coreSettings/label	Sets the name to display for this connection type in the UI.
<pre>root/ConnectionType/xen/coreSettings/ priorityInConnectionLists</pre>	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
<pre>root/ConnectionType/xen/coreSettings/ retryTimeout</pre>	This setting applies when a virtual machine is restarting and is not yet available to launch as a Citrix resource. If set to a negative number, reconnection is not attempted. Otherwise, it gives the time (in seconds) that HP ThinPro attempts to reconnect to the virtual machine.
<pre>root/ConnectionType/xen/coreSettings/ serverRequired</pre>	Sets whether a server name or address is unused, optional, or required for this connection type.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/coreSettings/ stopProcess	Sets the behavior that should occur when <code>connection-mgrstop</code> is called on this connection. By default this is <code>close</code> , which will send a standard kill signal to the process. When set to <code>kill</code> , the process specified by <code>appName</code> will be forcefully killed. When set to <code>custom</code> , a custom execution script specified by <code>wrapperScript</code> will be executed with the argument <code>stop</code> to terminate the process gracefully.
root/ConnectionType/xen/coreSettings/tier	Specifies the relative importance of this connection type and the order in which it is listed in the Create menu.
root/ConnectionType/xen/coreSettings/ watchPid	If set to 1, the connection is monitored under the name specified by appName. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/ wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/ wrapperScriptGeneration	Lets Connection Manager know what type of parameters to pass to the wrapper script.
root/ConnectionType/xen/general/CGPAddress	Specifies the CGP address using the syntax hostname:port.
	Optionally, instead of specifying the hostname, you can type an asterisk (*). This will use the value from the connection's address registry key as the host. For example: *:2598
	The port value is optional. If you do not specify a port value, the default of 2598 is used. If a connection on port 2598 fails, the thi client tries to establish a connection on port 1494.
root/ConnectionType/xen/general/TWIMode	Controls seamless mode for published applications. This setting directly maps to the Citrix .ini file setting ${\tt TWIMode}$.
root/ConnectionType/xen/general/ TWIModeResizeType	This setting directly maps to the Citrix .ini file setting TWIMoveResizeType.
root/ConnectionType/xen/general/ allowReadOnA allowReadOnZ	If set to 1, a user can read the mapped drive.
root/ConnectionType/xen/general/ allowWriteOnA allowWriteOnZ	If set to 1, a user can write to the mapped drive.
root/ConnectionType/xen/general/async	If set to 1, asynchronous polling is enabled. This setting directly maps to the Citrix .ini file setting CommPollSize.
root/ConnectionType/xen/general/ autoReconnect	If set to 1, automatic session reconnection is enabled. This is not the same as the connection-specific auto-reconnect. This occurs internally within the Citrix client without restarting the connection. This setting directly maps to the Citrix .ini file setting TransportReconnectEnabled.
root/ConnectionType/xen/general/ bitmapCacheSize	Sets the minimum size for bitmap caching. This setting directly maps to the Citrix .ini file setting PersistentCacheMinBitmap.
root/ConnectionType/xen/general/ bottomMonitor	Sets the screen area of the bottom monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/colorDepth	Forces a specific color depth for all connections. This is usually done only in specialized environments where the automatic depth selection fails or in very slow networks to reduce congestion.
root/ConnectionType/xen/general/colorMapping	If set to Shared - Approximate Colors, approximate colors from the default colormap are used. If set to Private - Exact Colors, precise colors are used. This setting directly maps to the Citrix .ini file setting ApproximateColors.
root/ConnectionType/xen/general/ contentRedirection	If set to 1, links from web content are sent from the server to the client so that the client can try to open them locally.
root/ConnectionType/xen/general/ debugLogLevel	If set to 0, no debug log is created. If set to 3, an error level log is created. If set to 4, a warning level log is created. If set to 7, all debug level logs are created.
root/ConnectionType/xen/general/ defaultBrowserProtocol	Controls the protocol used to locate the host for the connection. If not specified, the default value from the [WFClient] section of wfclient.ini is used. This setting directly maps to the Citrix .ini file setting BrowserProtocol.
root/ConnectionType/xen/general/ drivePathMappedOnA drivePathMappedOnZ	Sets the local filesystem directory to map to the remote host. Typically this is set to $/media$ to allow all connected USB drives to be mapped to the remote host via a single drive letter.
root/ConnectionType/xen/general/ enableAlertSound	If set to 1, Windows alert sounds are enabled. This setting indirectly maps to the Citrix .ini file setting <code>DisableSound</code> .
root/ConnectionType/xen/general/ enableClipboard	If set to 1, clipboard redirection is enabled.
root/ConnectionType/xen/general/ enableConnectionBar	If set to 1, enables Citrix Desktop Viewer in the session user interface. By default, this setting is set to 0 (disabled) on the client side because this value is set on the client by the ICA file for a desktop session.
root/ConnectionType/xen/general/ enableCursorColors	If set to 1, colored cursors are enabled. Setting this to 0 might fix graphical cursor corruption in some cases.
root/ConnectionType/xen/general/ enableDataCompression	If set to 1, data compression is enabled. This setting directly maps to the Citrix .ini file setting Compress.
root/ConnectionType/xen/general/ enableDriveMapAndRedirect	If set to 1, mapping and redirection for USB storage devices is enabled.
<pre>root/ConnectionType/xen/general/ enableDriveMapping</pre>	If set to 1, directories on the local filesystem can be forwarded to the remote host via a virtual drive. Typically $/media$ is mapped to $\mathbb Z$ to allow USB drives to be forwarded to the remote host. If USB redirection is enabled, this setting should be disabled to prevent storage conflicts. To be properly mapped to the remote host in this fashion, the USB device must use one of the following filesystems: FAT32, NTFS, ext2, ext3.
root/ConnectionType/xen/general/ enableDynamicDriveMapping	If set to 1, USB storage devices will be dynamically mapped on the Citrix server. If set to 0, dynamic mapping of USB storage devices is disabled.
root/ConnectionType/xen/general/ enableH264Compression	If set to 1, H.264 compression is enabled. The H.264 codec provides better performance of rich and professional graphics applications on WAN networks than the JPEG codec.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/ enableHDXFlashRedirection	NOTE: This feature is supported for the 32-bit version of HP ThinPro only.
	Controls the behavior of HDX Flash Redirection. If set to $Always$, HDX Flash Redirection is used if possible, and the user is not prompted. If set to Ask , the user is prompted. If set to $Never$, the feature is disabled.
root/ConnectionType/xen/general/ enableHDXFlashServerContentFetch	NOTE: This feature is supported for the 32-bit version of HP ThinPro only.
	Controls the behavior of HDX Flash Server-Side Content Fetching. If disabled, the client will fetch for content.
root/ConnectionType/xen/general/ enableHDXMediaStream	If set to 1, HDX MediaStream is enabled. If set to 0, media files will still play via standard streaming, but the quality might not be as high.
root/ConnectionType/xen/general/enableHWH264	If set to 1, and if enableH264Compression is also set to 1, hardware compression for H.264 is enabled. If set to 0, H.264 compression will be handled by software.
root/ConnectionType/xen/general/ enableMapOnA enableMapOnZ	If set to 1, a local filesystem directory can be mapped to this drive on the remote host. The corresponding <code>drivePathMappedOn</code> registry key must be set to a valid local directory for drive mapping to work properly.
root/ConnectionType/xen/general/ enableMultiMedia	If set to 1, multimedia is enabled. HDX Lync might have a conflict when this setting is enabled. This setting maps directly to the multimedia in the virtual channels section of the Citrix .ini file settings. Enable this setting when HDX MediaStream is enabled.
root/ConnectionType/xen/general/ enableOffScreenSurface	If set to 1, the server can use the X PixMap format for off- screen drawing. This reduces bandwidth in 15-bit and 24-bit color modes at the expense of X server memory and processor time. This setting directly maps to the Citrix .ini file setting EnableOSS.
root/ConnectionType/xen/general/ enableRC4128SHA	
root/ConnectionType/xen/general/enableRC4MD5	
root/ConnectionType/xen/general/ enableSessionReliability	If set to 1, Citrix Session Reliability is enabled. Session Reliability changes the way sessions are resumed after losing a network connection. See Citrix documentation for more information on Session Reliability.
root/ConnectionType/xen/general/ enableSmallFrames	If set to 1, small non-H.264 rectangle updates are enabled for H.264. enableTextTracking must also be enabled for this to have an effect.
root/ConnectionType/xen/general/ enableSmartCard	If set to 1, smart card login is enabled.
root/ConnectionType/xen/general/enableTLSRSA	
root/ConnectionType/xen/general/ enableTextTracking	If set to 1, optimized lossless text overlays are enabled for H.264.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/ enableUSBRedirection	If set to 1, USB storage devices will be redirected.
root/ConnectionType/xen/general/ encryptionLevel	Sets the level of encryption. Encryption protocols for all levels are defined in the [EncryptionLevelSession] section of module.ini. This setting directly maps to the Citrix .ini file setting [EncryptionLevelSession].
root/ConnectionType/xen/general/ fontSmoothingType	Sets the font smoothing type.
root/ConnectionType/xen/general/ hotKey<1thru15>Char	Sets the hot key to forward to the remote session when the key or key combination set in the corresponding hotKeyShift is pressed.
root/ConnectionType/xen/general/ hotKey<1thru15>Shift	Sets the key or key combination used to activate the hot key set the corresponding ${\tt hotKeyChar.}$
root/ConnectionType/xen/general/ httpAddresses/ <uuid>/address</uuid>	
root/ConnectionType/xen/general/ keyPassthroughEscapeChar	Sets the keyboard key for disabling the transparent keyboard mode. This setting directly maps to the Citrix .ini file setting KeyPassthroughEscapeChar.
root/ConnectionType/xen/general/ keyPassthroughEscapeShift	Sets the keyboard key combination for disabling the transparent keyboard mode. This setting directly maps to the Citrix .ini file setting KeyPassthroughEscapeShift.
root/ConnectionType/xen/general/ keyboardMappingFile	Specifies a keyboard mapping file for a Citrix session. By default, the startup script selects a keyboard mapping file based on the keyboard layout.
root/ConnectionType/xen/general/ lastComPortNum	Sets the number of mapped serial ports. If set to 0, serial port mapping is disabled.
root/ConnectionType/xen/general/leftMonitor	Sets the screen area of the left monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/ localTextEcho	Controls keyboard latency reduction. This setting indirectly maps to the Citrix .ini file setting <code>ZLKeyboardMode</code> .
root/ConnectionType/xen/general/ monitorNetwork	If set to Off, network connectivity is not monitored. If set to Local network link status only, only the local network link status is monitored. If set to Server online status, both the local network link status and serve connectivity are monitored.
root/ConnectionType/xen/general/ mouseClickFeedback	Controls mouse latency reduction. This setting indirectly maps to the Citrix .ini file setting <code>ZLMouseMode</code> .
root/ConnectionType/xen/general/ mouseMiddleButtonPaste	If set to 1, middle mouse button paste emulation for Windows sessions is enabled. This setting directly maps to the Citrix .ini fil setting MouseSendsControlV.
root/ConnectionType/xen/general/noInfoBox	If set to 1, the client manager (wfcmgr) will not display when a client session terminates. This setting directly maps to the Citrix .ini file setting PopupOnExit.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/ printerAutoCreation	If set to 0, printer mapping is disabled. If set to 1, printers defined locally will be mapped to the connection. If set to 2, USB printers are redirected as configured in USB Manager.
root/ConnectionType/xen/general/proxyAddress	Sets the proxy address to use if a manual proxy setting is selected via ${\tt proxyType.}$
root/ConnectionType/xen/general/ proxyPassword	Sets the proxy password to use if a manual proxy setting is selected via $\texttt{proxyType}$. This password will be encrypted using rc4 encryption.
root/ConnectionType/xen/general/proxyPort	Sets the proxy port to use if a manual proxy setting is selected via proxyType.
root/ConnectionType/xen/general/proxyType	Sets the type of proxy to use for XenDesktop connections. The value Use Browser settings is only supported if a local browser is installed.
root/ConnectionType/xen/general/proxyUser	Sets the proxy username to use if a manual proxy setting is selected via proxyType.
root/ConnectionType/xen/general/rightMonitor	Sets the screen area of the right monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/saveLogs	If set to 1, detailed log information is saved after the session ends. This log information will be saved to the following directory: /tmp/debug/citrix/ <date>/</date>
root/ConnectionType/xen/general/selfservice/ disableConfigMgr	If set to 1, session-sharing requests are sent to other Citrix sessions on the same X display. This setting directly maps to the Citrix .ini file setting <code>EnableSessionSharingClient</code> .
root/ConnectionType/xen/general/selfservice/ disableConnectionCenter	
root/ConnectionType/xen/general/selfservice/ enableKioskMode	_
root/ConnectionType/xen/general/selfservice/ sharedUserMode	_
root/ConnectionType/xen/general/selfservice/ showTaskBarInKioskMode	_
root/ConnectionType/xen/general/ serverCheckTimeout	
root/ConnectionType/xen/general/ sessionReliabilityTTL	Specifies the session reliability timeout in seconds. This configures the Session Reliability Time To Live (TTL).
root/ConnectionType/xen/general/ showOnAllMonitors	If set to 1, the virtual desktop will be shown on all monitors.
root/ConnectionType/xen/general/ smartCardModuleMap/CoolKeyPK11	Specifies the path to the <code>CoolKey PKCS #11</code> smart card security module.
root/ConnectionType/xen/general/ smartCardModuleMap/GemaltoDotNet	Specifies the path to the Gemalto .NET smart card security module.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/sound	Sets the sound quality. This setting indirectly maps to the Citrix .ini file setting AudioBandwidthLimit.
root/ConnectionType/xen/general/speedScreen	
root/ConnectionType/xen/general/tcpAccel	
root/ConnectionType/xen/general/ tcpAddresses/ <uuid>/address</uuid>	
root/ConnectionType/xen/general/topMonitor	Sets the screen area of the top monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/ transparentKeyPassthrough	Controls how certain Windows key combinations handled. If set to Translated, the key combinations apply to the local desktop. If set to Direct in full screen desktops only, the key combinations apply to the remote session only when it is in full screen mode. If set to Direct, the key combinations always apply to the remote session as long as the window has focus. This setting indirectly maps to the Citrix .ini file setting TransparentKeyPassthrough.
root/ConnectionType/xen/general/ transportProtocol	Sets the transport protocol. If set to On (default), the connection uses UDP and does not fall back on TCP if there is a failure. If set to Off , the connection uses TCP. If set to $Preferred$, the connection tries to use UDP first and falls back on TCP if there is a failure.
root/ConnectionType/xen/general/ twRedundantImageItems	Controls the number of screen areas that will be tracked in ThinWire to prevent redundant drawing of bitmap images. An adequate value for 1024 × 768 sessions is 300.
root/ConnectionType/xen/general/ useAlternateAddress	If set to 1, an alternate address is used for firewall connections. This setting directly maps to the Citrix .ini file setting UseAlternateAddress.
root/ConnectionType/xen/general/ useBitmapCache	If set to 1, the persistent disk cache is enabled. The persistent disk cache stores commonly-used graphical objects such as bitmaps on the hard disk of the thin client. Using the persistent disk cache increases performance across low-bandwidth connections but reduces the amount of available disk space on the thin client. For thin clients on high-speed LANs, usage of the persistent disk cache is not necessary. This setting directly maps to the Citrix .ini file setting PersistentCacheEnabled.
root/ConnectionType/xen/general/useEUKS	Controls the use of Extended Unicode Keyboard Support (EUKS) or Windows servers. If set to 0, EUKS is not used. If set to 1, EUKS is used as a fallback. If set to 2, EUKS is used whenever possible.
root/ConnectionType/xen/general/useLocalIM	If this setting is enabled, the local X input method is used to interpret keyboard input. This is supported for European languages only. This setting directly maps to the Citrix .ini file setting useLocalIME.
root/ConnectionType/xen/general/userAgent	The string from this key will be presented by the Citrix client and will be helpful for administrators to know where the connection request is from.
root/ConnectionType/xen/general/ waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/general/ webcamFramesPerSec	Controls the HDXWebCamFramesPerSec variable in the All_Regions.ini file.
root/ConnectionType/xen/general/webcamHeight	Controls the HDXWebCamHeight variable in the All_Regions.ini file.
root/ConnectionType/xen/general/ webcamQuality	Controls the HDXWebCamQuality variable in the All_Regions.ini file. Valid input ranges from 1 to 63.
root/ConnectionType/xen/general/ webcamSupport	If set to 0, the webcam and webcam audio are disabled. If set to 1, the webcam and webcam audio are enabled, with compression If set to 2, USB redirection of the webcam and webcam audio is enabled.
root/ConnectionType/xen/general/webcamWidth	Controls the HDXWebCamWidth variable in the All_Regions.ini file.
root/ConnectionType/xen/general/windowHeight	Sets the height of the window in pixels if windowSize is set to Fixed Size.
root/ConnectionType/xen/general/ windowPercent	Sets the size of the window as a percentage if windowSize is set to Percentage of Screen Size.
root/ConnectionType/xen/general/windowSize	If set to <code>Default</code> , the server-side settings are used. If set to <code>Full Screen</code> , the window is maximized without borders on all available screens. If set to <code>Fixed Size</code> , the <code>windowWidth</code> and <code>windowHeight</code> registry keys can be used to specify the size of the window in pixels. If set to <code>Percentage</code> of <code>Screen Size</code> , the <code>windowPercent</code> key can be used to specify the size of the window as a percentage. For <code>Percentage</code> of <code>Screen Size</code> to take effect, <code>enableForceDirectConnect</code> must be set to 1 and <code>TWIMode</code> must be set to 0. This setting only works with <code>XenApp</code> and only if the server allows direct connections. This setting does not work with <code>XenDesktop</code> .
root/ConnectionType/xen/general/windowWidth	Sets the width of the window in pixels if windowSize is set to Fixed Size.
root/ConnectionType/xen/gui/XenDesktopPanel/ disabled	If set to 1, the Xen Desktop panel and its taskbar are disabled. This is usually used when autoStartResource or autoStartDesktop is enabled.
root/ConnectionType/xen/gui/XenManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/ status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/ widgets/address	Controls the state of the Service URL widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/gui/XenManager/ widgets/appInMenu	Controls the state of the Show applications on taskbar widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/appOnDesktop	Controls the state of the Show applications on desktop widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/autoReconnect	Controls the state of the Auto reconnect widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/autoStartDesktop	Controls the state of the Auto Start Desktop widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/autoStartResource	Controls the state of the Auto Start Resource widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/autostart	Controls the state of the Auto start priority widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/domain	Controls the state of the Domain widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/fallBackConnection	Controls the state of the Fallback Connection widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/folder	
root/ConnectionType/xen/gui/XenManager/ widgets/hasDesktopIcon	Controls the state of the Show icon on desktop widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/ widgets/label	Controls the state of the Name widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-14 ConnectionType/xen registry keys (continued)

Registry key	Description
root/ConnectionType/xen/gui/XenManager/widgets/password	Controls the state of the Password widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
<pre>root/ConnectionType/xen/gui/XenManager/ widgets/username</pre>	Controls the state of the Username widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/waitForNetwork	Controls the state of the Wait for network before connecting widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/fbpanel/autohide	If set to true, the taskbar auto-hides.
root/ConnectionType/xen/gui/fbpanel/edge	Sets the default position of the taskbar when more than one published desktop or application is available.
root/ConnectionType/xen/gui/fbpanel/hidden	If set to 1, the taskbar is completely hidden, but only if autoStartResource Or autoStartDesktop is enabled.

DHCP

This folder exists to support temporary registry keys that are added when the system acquires a DHCP lease. No modification is necessary.

Dashboard

Dashboard registry keys.



NOTE: The dashboard is the same thing as the taskbar.

Table E-15 Dashboard registry keys

Registry key	Description
root/Dashboard/GUI/Clock	If set to 1, the clock is shown on the taskbar.
root/Dashboard/GUI/DomainUser	If set to 1, the domain-user icon is shown on the taskbar if the system is in domain-login mode.
root/Dashboard/GUI/PowerButton	If set to 1, the power button is shown on the taskbar.
root/Dashboard/GUI/Search	If set to 1, the Search button is shown on the taskbar.
root/Dashboard/GUI/SystemTray	If set to 1, the system tray is shown on the taskbar.
root/Dashboard/GUI/TaskBar	If set to 1, the application area is shown on the taskbar.

Table E-15 Dashboard registry keys (continued)

Registry key	Description
root/Dashboard/General/AutoHide	If set to 1, the taskbar auto-hides.
root/Dashboard/General/EnterLeaveTimeout	Sets the amount of time in milliseconds before the taskbar will hide or show when AutoHide is enabled.
root/Dashboard/General/IconSize	Sets the size of the icons on the taskbar.
	If set to -1, the size of the icon is based on the width of the taskbar.
root/Dashboard/General/Length	Sets the length of the taskbar.
root/Dashboard/General/LengthToScreenSide	If set to 1, the length of taskbar is fixed and equal to the length of the side of the screen to which it is anchored.
root/Dashboard/General/PanelDockSide	Sets the side of the screen to which the taskbar is docked.
root/Dashboard/General/SlidingTimeout	Sets the amount of time in milliseconds that it takes for the taskbar to hide or show when <code>AutoHide</code> is enabled.
root/Dashboard/General/Width	Sets the width of the taskbar.
	If set to -1, the width is scaled based on the height of the primary monitor.

Imprivata

Imprivata registry keys.

Table E-16 Imprivata registry keys

Registry key	Description
root/Imprivata/enableImprivata	If set to 1, Imprivata ProveID Embedded will be enabled. By default, it is 0.
root/Imprivata/enableWMRightClickMenu	If set to 1, the Window Manager right click menu is enabled. This is useful when the regular desktop is not available. The menu items are adjustable according to the Power Manager and the Customization Center configuration.
root/Imprivata/enableWMShortcuts	If set to 1, the Window Manager shortcuts are enabled. By default, the shortcuts are disabled to preserve the Imprivata agent environment.
root/Imprivata/ImprivataServer	URL of the Imprivata Server. Setting root/users/user/apps/hptc-imprivata-mgr/authorized to 1 allows the current user to modify the Imprivata setup.
root/Imprivata/USBr/Devices	Lists some USB devices with a predefined redirection rule specific to the remote connections launched using the Imprivata environment. For each USB device, the redirection rule is given by the setting: forcedState. Requires OneSign ProveID Embedded 6.2 with the ability to use the vendor scripts set.
root/Imprivata/x11SessionFilter	If enableImprivata is true, /etc/X11/Xsession.d/19-imprivata- session-fork takes over the X session. x11SessionFilter defines the X session files that are filtered out of the X session list of files. x11SessionFilter is a semicolon separated list of the session files to be excluded. Wildcards are usable.

Table E-16 Imprivata registry keys (continued)

Registry key	Description
root/Imprivata/Imprivata.conf/Vdi/ useVendorLaunchScript	If set to 1, the HP's helper scripts are used to launch a VDI session. The legacy and deprecated scripts are used otherwise. For this setting to take effect, the X session has to be restarted. Imprivata.conf setting: use-vendor-launch-script
root/Imprivata/RdpHelper/rdpFileTemplate	Template of the .rdp file that is completed by the RDP helper with the "full address" field.
root/Imprivata/SysInfo/citrix-wfica-client	Path to the Citrix wfica client.
root/Imprivata/SysInfo/device-model	The string returned by the hptc-hwsw-idhw command is used by default. Set the value to get a more relevant string.
root/Imprivata/SysInfo/logo	Path to the Imprivata partner logo.
root/Imprivata/SysInfo/persistent-data-folder	Path to a folder where the ProveID Embeded components can be stored, eg: /writable/imprivata-sys-info-data or /writable/misc/imprivata-sys-info-data if the folder contents need to be part of a profile.
root/Imprivata/SysInfo/primary-monitor	If empty the primary monitor is automatically detected. Set the value to force a specific monitor, eg: DisplayPort-0.
root/Imprivata/SysInfo/rdp-client	Path to the Microsoft RDP client.
root/Imprivata/SysInfo/rds-client	Path to the Microsoft RDS client.
root/Imprivata/SysInfo/vmware-client	Path to the VMware Horizon View client.
root/Imprivata/USBr/Devices/ <class id="">:<product id="">/forcedState</product></class>	Sets whether this device is forced to be mapped to the remote host as follows: -1=Ignore Device; 0=Do Not Redirect; 1=Use Defaults; 2=Redirect.
root/Imprivata/USBr/Devices/ <class id="">:<product id="">/info</product></class>	Device information.
root/Imprivata/VmwareViewHelper/skipCrlRevocationCheck	If set to 1, the connection will skip certificate revocation list check for VMware Horizon Client 5.4 or later.

Input Method

InputMethod registry key.

Table E-17 InputMethod registry key

Registry key	Description
root/InputMethod/enablelbus	

Network

Network registry keys.

Table E-18 Network registry keys

Registry key	Description
root/Network/ActiveDirectory/Domain	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/DynamicDNS	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Enabled	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Method	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Password	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Username	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/DNSServers	Additional DNS servers for domain name resolution can be specified here. The specified servers will be used in addition to any servers retrieved via DHCP. Up to three IPv4 or IPv6 addresses can be specified, separated by commas.
root/Network/DefaultHostnamePattern	Sets the default hostname pattern to use when generating a new hostname. This is used if the <code>Hostname</code> registry key and <code>/etc/hostname</code> are both empty. The hostname pattern uses % as a delimiter. In the example <code>HPTC%MAC:1-6%</code> , <code>HPTC</code> would be the prefix, and the first six characters of the thin client MAC address would follow. So if the MAC address of the thin client is <code>11:22:33:44:55:66</code> , the generated hostname would be <code>HPTC112233.</code> If the pattern is <code>TC%MAC%</code> , the generated hostname would be <code>TC112233445566</code> . If the pattern is <code>HP%MAC:7%</code> , the generated hostname would be <code>HP11223344</code> .
root/Network/EncryptWpaConfig	If set to 1, the password is encrypted.
root/Network/FtpProxy	Sets the FTP proxy address. HP recommends using the following format for this value because the http prefix is better supported: http://ProxyServer:Port
root/Network/Hostname	Sets the hostname of the thin client.
root/Network/HttpProxy	Sets the HTTP proxy address. HP recommends using the following format: http://ProxyServer:Port
root/Network/HttpsProxy	Sets the HTTPS proxy address. HP recommends using the following format for this value because the http prefix is better supported: http://ProxyServer:Port
root/Network/IPSec/IPSecRules/ <uuid>/DstAddr</uuid>	Sets the destination address for the IPSec rule.
root/Network/IPSec/IPSecRules/ <uuid>/ MMAuthMethod</uuid>	Sets the authentication method for the IPSec rule. PSK is for using a pre-shared key, and Certificate is for using certificate files.
root/Network/IPSec/IPSecRules/ <uuid>/ MMAuthMethodCACert</uuid>	If the authentication method is <code>Certificate</code> , the CA certificate file path is saved in this registry key.
root/Network/IPSec/IPSecRules/ <uuid>/ MMAuthMethodClientCert</uuid>	If the authentication method is Certificate, the client certificate file path is saved in this registry key.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/IPSec/IPSecRules/ <uuid>/ MMAuthMethodPresharedKey</uuid>	If the authentication method is $\mathtt{PSK},$ the pre-shared key value is saved in this registry key.
root/Network/IPSec/IPSecRules/ <uuid>/ MMAuthMethodPrivateKey</uuid>	If the authentication method is <code>Certificate</code> , the private key file path that corresponds with the client certificate is saved in this registry key.
root/Network/IPSec/IPSecRules/ <uuid>/ MMDHGroup</uuid>	Sets the phase 1 Diffie-Hellman group.
root/Network/IPSec/IPSecRules/ <uuid>/ MMEncryptionAlg</uuid>	Sets the phase 1 encryption algorithm.
root/Network/IPSec/IPSecRules/ <uuid>/ MMIntegrityAlg</uuid>	Sets the phase 1 integrity algorithm.
root/Network/IPSec/IPSecRules/ <uuid>/ MMLifetimeMinutes</uuid>	Sets the phase 1 lifetime.
root/Network/IPSec/IPSecRules/ <uuid>/ QMAHEnable</uuid>	Enables phase 2 AH.
root/Network/IPSec/IPSecRules/ <uuid>/ QMAHIntegrityAlg</uuid>	Sets the phase 2 AH integrity algorithm.
root/Network/IPSec/IPSecRules/ <uuid>/ QMESPEnable</uuid>	Enables phase 2 ESP.
root/Network/IPSec/IPSecRules/ <uuid>/ QMESPEncryptionAlg</uuid>	Sets the phase 2 ESP encryption algorithm.
root/Network/IPSec/IPSecRules/ <uuid>/ QMESPIntegrityAlg</uuid>	Sets the phase 2 ESP integrity algorithm.
root/Network/IPSec/IPSecRules/ <uuid>/ QMLifetimeSeconds</uuid>	Sets the phase 2 lifetime.
root/Network/IPSec/IPSecRules/ <uuid>/ RuleDescription</uuid>	Sets the description for the IPSec rule.
root/Network/IPSec/IPSecRules/ <uuid>/ RuleEnable</uuid>	If set to 1, the rule is enabled.
root/Network/IPSec/IPSecRules/ <uuid>/ RuleName</uuid>	Sets the name for the IPSec rule.
root/Network/IPSec/IPSecRules/ <uuid>/SrcAddr</uuid>	Sets the source address for the IPSec rule.
root/Network/IPSec/IPSecRules/ <uuid>/ TunnelDstAddr</uuid>	Sets the tunnel destination address for the IPSec rule.
root/Network/IPSec/IPSecRules/ <uuid>/ TunnelEnable</uuid>	Enables tunnel mode for the IPSec rule.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/IPSec/IPSecRules/ <uuid>/ TunnelSrcAddr</uuid>	Sets the tunnel source address for the IPSec rule.
root/Network/KeepPreviousDNS	If set to 1, previously-configured DNS servers and search domains not generated by the Network Manager will be kept in resolv.conf. If set to 0, resolv.conf will be overwritten completely.
root/Network/SearchDomains	Additional search domains for FQDN resolution can be specified here. The specified domains will be appended to any incomplete server definitions in an attempt to generate an FQDN that can be resolved via DNS. For example, a search domain of mydomain.com will allow the server definition myserver to resolve properly to myserver.mydomain.com, even if the DNS server does not have myserver in its name resolution tables. Up to five additional search domains can be specified.
root/Network/VPN/AutoStart	If set to 1, VPN starts automatically when the system starts up.
root/Network/VPN/PPTP/Domain	Sets the PPTP domain.
root/Network/VPN/PPTP/Gateway	Sets the PPTP gateway.
root/Network/VPN/PPTP/Password	Sets the PPTP user password.
root/Network/VPN/PPTP/Username	Sets the PPTP username.
root/Network/VPN/Type	Sets the VPN type.
root/Network/VPN/VPNC/DPDEndianess	Sets the endianness of the DPD sequence number (see rfc3706). 0: big endian; 1: little endian. Try toggling this if the session aborts intermittently for no apparent reason.
root/Network/VPN/VPNC/DPDInterval	Sets the DPD interval (see rfc3706) in seconds.
root/Network/VPN/VPNC/DebugLevel	Sets the debug level to either 0, 1, 2, 3, or 99. This generates a lot of logs. Enable this only when you need to troubleshoot a VPN issue.
root/Network/VPN/VPNC/Domain	Sets the VPNC domain.
root/Network/VPN/VPNC/Gateway	Sets the VPNC gateway.
root/Network/VPN/VPNC/Group	Sets the VPNC group.
root/Network/VPN/VPNC/GroupPassword	Sets the VPNC group password.
root/Network/VPN/VPNC/IKEDHGroup	Sets the VPNC IKE Diffie-Hellman group.
root/Network/VPN/VPNC/LocalUDPPort	Sets the local UDP port to use for VPNC. If set to 0, a random port will be used. This setting is valid only when the NAT traversal mode (NATTMode) is cisco-udp.
root/Network/VPN/VPNC/NATTMode	Sets the VPNC NAT traversal mode.
root/Network/VPN/VPNC/Password	Sets the VPNC user password.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/VPN/VPNC/PerfectForwardSecrecy	Sets the VPNC Diffie-Hellman group to use for Perfect Forward Secrecy (PFS).
root/Network/VPN/VPNC/Security	Sets the VPNC security level.
root/Network/VPN/VPNC/Username	Sets the VPNC username.
root/Network/VisibleInSystray	If set to 1, the network icon is visible in the system tray.
root/Network/Wired/DefaultGateway	Sets the default gateway the device will use to communicate with the Internet. Typically this is the IP address of the router. This setting takes effect only when Method is set to Static.
root/Network/Wired/EnableDefGatewayAsDNS	If set to 1, the default gateway will also be the name server.
root/Network/Wired/EthernetSpeed	Sets the link speed of the primary Ethernet network interface. Automatic allows the fastest available link speed to be used, which is usually 1 Gbps or 100 Mbps/Full depending on the switch The link speed can also be forced to a single speed (100 Mbps or 10 Mbps) and duplex mode (Full or Half) to support switches and hubs that do not perform appropriate auto-negotiation.
root/Network/Wired/IPAddress	Sets the IPv4 address of the thin client. This setting will only take effect when Method is set to Static.
root/Network/Wired/IPv6Enable	If set to 1, IPv6 is enabled.
root/Network/Wired/Interface	Sets the default Ethernet interface or NIC.
root/Network/Wired/MTU	Sets the MTU. It does not matter if the IP address is static or DHCP-acquired.
root/Network/Wired/Method	If set to Automatic, the thin client will use DHCP to attempt to retrieve network settings. If set to Static, the values of the IPAddress, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile because it will cause all thin clients to receive the same IP address.
root/Network/Wired/Profiles/ <uuid>/ AutoConnect</uuid>	If set to 1, automatic connection to the network is enabled.
root/Network/Wired/Profiles/ <uuid>/ EthernetSpeed</uuid>	Sets the link speed of the primary Ethernet network interface. Automatic allows the fastest available link speed to be used, which is usually 1 Gbps or 100 Mbps/full depending on the switch. The link speed can be forced to a combination of a single speed (100 Mbps or 10 Mbps) and duplex mode (Full or Half) to support switches and hubs that do not perform auto-negotiation.
root/Network/Wired/Profiles/ <uuid>/IPv4/ Address</uuid>	Sets the IPv4 address of the client. This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/IPv4/ DefaultGateway</uuid>	Sets the default gateway that the device uses to communicate with the Internet. Typically, this is the IP address of the router. This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/IPv4/ Enabled</uuid>	If set to 1, IPv4 is enabled for this profile.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wired/Profiles/ <uuid>/IPv4/ Method</uuid>	If set to Automatic, the client uses DHCP to attempt to retrieve network settings. If set to Static, the values of the Address, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile, because all clients would use the same IP address.
root/Network/Wired/Profiles/ <uuid>/IPv4/ SubnetMask</uuid>	Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/IPv6/ Address</uuid>	Sets the IPv6 address of the client. This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/IPv6/ DefaultGateway</uuid>	Sets the default gateway that the device uses to communicate with the Internet. Typically, this is the IP address of the router. This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/IPv6/ Enabled</uuid>	If set to 1, IPv6 is enabled for this profile.
root/Network/Wired/Profiles/ <uuid>/IPv6/ Method</uuid>	If set to Automatic, the client uses DHCP to attempt to retrieve network settings. If set to Static, the values of the Address, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile, because all clients would use the same IP address. If set to Automatic, the client uses DHCP to attempt to retrieve network settings. If set to Static, the values of the Address, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile, because all clients would use the same IP address.
root/Network/Wired/Profiles/ <uuid>/IPv6/ SubnetMask</uuid>	Sets the subnet mask of the device, which is usually the IPv6 prefix length. This setting takes effect only if Method is set to Static.
root/Network/Wired/Profiles/ <uuid>/MTU</uuid>	Sets the MTU. It does not matter if the IP address is static or acquired by DHCP.
root/Network/Wired/Profiles/ <uuid>/Priority</uuid>	Reserved for wired network.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPPEAP/AnonyIdentity</uuid>	Sets the anonymous identity for PEAP authentication.
root/Network/Wired/Profiles/ <uuid>/EAPPEAP/ CACert</uuid>	Sets the path to the CA certificate file for PEAP authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPPEAP/InnerAuth</uuid>	Sets the PEAP inner authentication protocol.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPPEAP/PEAPVer</uuid>	Sets the PEAP version.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPPEAP/Password</uuid>	Sets the password for PEAP authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPPEAP/Username</uuid>	Sets the username for PEAP authentication.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTLS/CACert</uuid>	Sets the path to the CA certificate file for TLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTLS/Identity</uuid>	Sets the identity for TLS authentication.
root/Network/Wired/Profiles/ <uuid>/EAPTLS/ PrivateKey</uuid>	Sets the path to a private key file for TLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTLS/PrivateKeyPassword</uuid>	Sets the password to a private key file for TLS authentication.
root/Network/Wired/Profiles/ <uuid>/EAPTLS/ UserCert</uuid>	Sets the path to a user certificate file for TLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTTLS/AnonyIdentity</uuid>	Sets the anonymous identity for TTLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTTLS/CACert</uuid>	Sets the path to a CA certificate file for TTLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTTLS/InnerAuth</uuid>	Sets the TTLS inner authentication protocol.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTTLS/Password</uuid>	Sets the password for TTLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ EAPTTLS/Username</uuid>	Sets the username for TTLS authentication.
root/Network/Wired/Profiles/ <uuid>/Security/ Type</uuid>	Sets the wired authentication type.
root/Network/Wired/Profiles/ <uuid>/ WiredInterface</uuid>	Sets the wired interface for the profile.
root/Network/Wired/Security/CACert	Sets the path to CA certificate file.
root/Network/Wired/Security/ EnableMachineAuth	If set to 1, machine authentication for PEAP is enabled.
root/Network/Wired/Security/Identity	Sets the identity or anonymous identity.
root/Network/Wired/Security/InnerAuth	Sets the PEAP inner authentication protocol.
root/Network/Wired/Security/InnerAuthTTLS	Sets the TTLS inner authentication protocol.
root/Network/Wired/Security/MachineAuthName	Stores the machine account name when machine authentication is enabled.
root/Network/Wired/Security/ MachineAuthPassword	Stores the machine account password when machine authentication is enabled.
root/Network/Wired/Security/PEAPVersion	Sets the PEAP version.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wired/Security/Password	Sets the password.
root/Network/Wired/Security/PrivateKey	Sets the path to a private key file. This is only used for TLS authentication.
root/Network/Wired/Security/Type	Sets the 802.1x authentication type.
root/Network/Wired/Security/UserCert	Sets the path to a user certificate file. This is only used for TLS authentication.
root/Network/Wired/Security/Username	Sets the username.
root/Network/Wired/SubnetMask	Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting will only take effect when Method is set to Static.
root/Network/Wired/UseWiredProfiles	If set to 1, the wired connection is configured in profile mode, which can connect to multiple wired networks. If set to 0, it can connect to only one wired network.
root/Network/WiredWirelessSwitch	If set to 0, a wired network and a wireless network can be connected simultaneously. If set to 1, the wired network takes priority over the wireless network; that is, if the wired network cannot connect, a configured wireless network is used.
root/Network/Wireless/DefaultGateway	Sets the default gateway the device will use to communicate with the Internet. Typically this is the IP address of the router. This setting will only take effect when <code>Method</code> is set to <code>Static</code> .
root/Network/Wireless/EnableDefGatewayAsDNS	If set to 1, the default gateway will also be the name server.
root/Network/Wireless/EnableWireless	If set to 1, wireless functionality is enabled. If set to 0, wireless functionality Is disabled.
root/Network/Wireless/IPAddress	Sets the IPv4 address of the thin client. This setting will only take effect when Method is set to Static.
root/Network/Wireless/IPv6Enable	If set to 1, IPv6 is enabled.
root/Network/Wireless/Interface	Sets the default wireless interface or wireless network adapter.
root/Network/Wireless/Method	If set to Automatic, the thin client will use DHCP to attempt to retrieve network settings. If set to Static, the values of the IPAddress, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile because it will cause all thin clients to receive the same IP address.
root/Network/Wireless/PowerEnable	If set to 1, power management of the wireless network card is enabled.
root/Network/Wireless/Profiles/ <uuid>/ AutoConnect</uuid>	If set to 1, automatic connection to the SSID is enabled.
root/Network/Wireless/Profiles/ <uuid>/IPv4/ Address</uuid>	Sets the IPv4 address of the client. This setting takes effect only if Method is set to Static.
root/Network/Wireless/Profiles/ <uuid>/IPv4/ DefaultGateway</uuid>	Sets the default gateway the device uses to communicate with the Internet. Typically, this Is the IP address of the router. This setting takes effect only if Method is set to Static.

Table E-18 Network registry keys (continued)

Description
If set to 1, IPv4 is enabled for this profile.
If set to Automatic, the client uses DHCP to retrieve network settings. If set to Static, the values of the Address, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile, because all clients using that profile would use the same IP address.
Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting takes effect only if Method is set to Static.
Sets the IPv6 address of the client. This setting takes effect only if Method is set to Static.
Sets the default gateway the device uses to communicate with the Internet. Typically, this Is the IP address of the router. This setting takes effect only if Method is set to Static.
If set to 1, IPv6 is enabled for this profile.
If set to Automatic, the client uses DHCP to attempt to retrieve network settings. If set to Static, the values of the Address, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile, because all clients would use the same IP address.
Sets the subnet mask of the device, which is usually the IPv6 prefix length. This setting takes effect only if Method is set to Static.
If set to 1, power management of the wireless network card is enabled.
Defines the priority of the network. For a wireless network, a larger number means a higher priority. High priority is preferred for a wireless network connection.
Sets the wireless access point to use via SSID.
Specifies whether the SSID of the wireless access point is hidden.
Sets the anonymous identity for EAP-FAST authentication.
Sets the provisioning option for EAP-FAST authentication.
Sets the path to the PAC file for EAP-FAST authentication.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPFAST/Username</uuid>	Sets the username for EAP-FAST authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/AnonyIdentity</uuid>	Sets the anonymous identity for EAP PEAP authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/CACert</uuid>	Sets the path to the CA certificate file for EAP PEAP authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/InnerAuth</uuid>	Sets the PEAP inner authentication protocol.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/PEAPVer</uuid>	Sets the PEAP version.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/Password</uuid>	Sets the password for EAP PEAP authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPPEAP/Username</uuid>	Sets the username for EAP PEAP authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTLS/CACert</uuid>	Sets the path to the CA certificate file for TLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTLS/Identity</uuid>	Sets the identity for TLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTLS/PrivateKey</uuid>	Sets the path to a private key file for TLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTLS/PrivateKeyPassword</uuid>	Sets the password to a private key file for TLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTLS/UserCert</uuid>	Sets the path to a user certificate file for TLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTTLS/AnonyIdentity</uuid>	Sets the anonymous identity for TTLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTTLS/CACert</uuid>	Sets the path to a CA certificate file for TTLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTTLS/InnerAuth</uuid>	Sets the TTLS inner authentication protocol.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTTLS/Password</uuid>	Sets the password for TTLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/EAPTTLS/Username</uuid>	Sets the username for TTLS authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/PSK/HexdecimalMode</uuid>	

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wireless/Profiles/ <uuid>/ Security/PSK/PreSharedKey</uuid>	Sets the password for PSK authentication.
root/Network/Wireless/Profiles/ <uuid>/ Security/Type</uuid>	Sets the wireless authentication type.
root/Network/Wireless/Profiles/ <uuid>/ Security/WEP/AuthType</uuid>	Sets the WEP authentication type.
root/Network/Wireless/Profiles/ <uuid>/ Security/WEP/Key</uuid>	Sets the WEP password.
root/Network/Wireless/Profiles/ <uuid>/ Security/WEP/KeyIndex</uuid>	Sets the WEP password index.
root/Network/Wireless/Profiles/ <uuid>/ Security/WirelessBand</uuid>	Specifies the frequency range selection. Select \mathtt{Auto} to scan all wireless channels; select 2 . $\mathtt{4GHz}$ to scan only 2.4 GHz channels; select $\mathtt{5GHz}$ to scan only 5 GHz channels.
root/Network/Wireless/Profiles/ <uuid>/ Security/WirelessInterface</uuid>	Sets the wireless interface for the profile.
root/Network/Wireless/Roaming/ enableRoamingOptions	If set to 1, wireless roaming options are configurable.
root/Network/Wireless/Roaming/ longScanInterval	Specifies how often, in seconds, to scan for an access point with a stronger signal when the signal strength is above the roaming threshold. The default is 60.
root/Network/Wireless/Roaming/roamingNap	Specifies how often, in seconds, the connection sleeps when the wpa_applicant status changes. This helps reduce spurious Wi-Fi events from breaking live connections when roaming occurs.
root/Network/Wireless/Roaming/ roamingThreshold	Sets the minimum signal strength, in dBm, allowed before attempting to roam to a stronger access point. Note that this value is negative.
root/Network/Wireless/Roaming/scanInterval	Sets how often, in seconds, to scan for a stronger access point when the signal strength is below the roaming threshold.
root/Network/Wireless/SSID	Sets the wireless access point to use via its SSID.
root/Network/Wireless/SSIDHidden	Specifies if the SSID of the wireless access point is hidden.
root/Network/Wireless/SSIDWhiteList	Specifies a whitelist for wireless access points. If this registry key's value is not empty, only the SSIDs specified in the value will be shown in the wireless access point scan results. Use a semicolon to separate the SSIDs.
root/Network/Wireless/Security/CACert	Sets the path to CA certificate file.
root/Network/Wireless/Security/EAPFASTPAC	Sets the path to the PAC file for EAP-FAST authentication.
root/Network/Wireless/Security/ EAPFASTProvision	Sets the provisioning option for EAP-FAST authentication.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/Wireless/Security/InnerAuth	Sets the PEAP inner authentication protocol.
root/Network/Wireless/Security/InnerAuthTTLS	Sets the TTLS inner authentication protocol.
root/Network/Wireless/Security/PEAPVersion	Sets the PEAP version.
root/Network/Wireless/Security/Password	Sets the password.
root/Network/Wireless/Security/PrivateKey	Sets the path to a private key file. This is only used for TLS authentication.
root/Network/Wireless/Security/Type	Sets the wireless authentication type.
root/Network/Wireless/Security/UserCert	Sets the path to a user certificate file. This is only used for TLS authentication.
root/Network/Wireless/Security/Username	Sets the username.
root/Network/Wireless/Security/WEPAuth	Sets the WEP authentication type.
root/Network/Wireless/Security/WEPIndex	Sets the WEP password index.
root/Network/Wireless/SubnetMask	Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting will only take effect when Method is set to Static.
root/Network/Wireless/UseWirelessProfiles	If set to 1, the wireless connection is configured in profile mode, which can connect to multiple wireless networks. This is useful for mobile computing. If set to 0, only one configured wireless network can be connected.
root/Network/Wireless/WirelessBand	Specifies the frequency range selection. Select <code>Auto</code> to scan all wireless channels; select <code>2.4GHz</code> to scan only <code>2.4GHz</code> channels; select <code>5GHz</code> to scan only <code>5</code> GHz channels.
root/Network/Wireless/WpaDriver	Specifies the driver used by wpa_supplicant (wext by default). n180211 is the only other driver that is currently supported.
root/Network/Wireless/bcmwlCountryOverride	Overrides the country value from the BIOS in case the BIOS does not have the necessary value. The bcmwl driver accepts the wl_country option, which is retrieved from BIOS values on an as-needed basis (only Indonesia is supported currently). A system restart is required for any changes to take effect.
root/Network/Wireless/ disableUserCreateWirelessProfile	If set to 1, user accounts cannot create wireless profiles from the wireless system tray.
root/Network/Wireless/ disableUserWirelessProfileTrayMenu	If set to 1, the wireless menu of the wireless system tray icon is disabled for the user account.
root/Network/Wireless/ disableWirelessProfileTrayMenu	If set to 1, the wireless menu of the wireless system tray icon is disabled.
root/Network/Wireless/ tryAutoWirelessIfUserFailed	If set to 1, if a user tries to connect to a wireless AP and fails, the wireless module tries to connect wirelessly using all available profiles. If set to 0, if a user tries to connect to a wireless AP and fails, the wireless status is set to disconnected. This is a fallback function.

Table E-18 Network registry keys (continued)

Registry key	Description
root/Network/disableLeftClickMenu	If set to 1, the left-click menu for the network system tray icon is disabled.
root/Network/disableRightClickMenu	If set to 1, the right-click menu for the network system tray icon is disabled.
root/Network/enableVPNMenu	If set to 1, the left-click VPN menu accessible from the network taskbar icon is enabled.
root/Network/userLock	If set to 1, and if the network settings have been modified by the user, the network settings are preserved when importing a client profile.
root/Network/userLockEngaged	This registry key is set to 1 automatically after the network settings have been modified by the user. You normally do not need to modify this setting.

Power

Registry keys for power settings.

Table E-19 Power registry keys

Registry key	Description
root/Power/applet/VisibleInSystray	If set to 1, the battery icon is displayed in the system tray.
root/Power/buttons/logout/authorized	If set to 1, the logout function is available.
root/Power/buttons/power/authorized	If set to 1, the power function is available.
root/Power/buttons/poweroff/authorized	If set to 1, the poweroff function is available.
root/Power/buttons/reboot/authorized	If set to 1, the reboot function is available.
root/Power/buttons/sleep/authorized	If set to 1, the Sleep function is available.
root/Power/currentPowerPlan	This registry key selects which power plan is used. This is automatically set to default.
root/Power/default/AC/brightness	Sets the default brightness percentage level for when the mobile thin client is plugged in.
root/Power/default/AC/cpuMode	Sets the CPU mode for a power plan while the computer is connected to AC power. By default, it is set to performance.
root/Power/default/AC/lidAction	Sets the action that occurs when the computer lid is closed while the computer is connected to AC power. By default, it is set to Sleep.
root/Power/default/AC/powerButtonAction	Sets the action that occurs when the power button is pressed while the computer is connected to AC power. By default, it is set to shutdown.
root/Power/default/AC/sleep	Sets the value (in minutes) that the computer waits before it enters the Sleep state while the computer is connected to AC power. By default, it is set to 30. If set to 0, the computer never enters the Sleep state.

Table E-19 Power registry keys (continued)

Registry key	Description
root/Power/default/AC/standby	Sets the value (in minutes) that the computer waits before the display turns off while the computer is connected to AC power. By default, it is set to 15. If set to 0, the computer never enters standby mode.
root/Power/default/AC/timeoutDim	This key is currently not in use.
root/Power/default/battery/brightness	Sets the default brightness percentage level for when the mobile thin client is not plugged in.
root/Power/default/battery/cpuMode	Sets the CPU mode for a power plan while the computer is not connected to AC power. By default, it is set to ondemand.
root/Power/default/battery/critical/ criticalBatteryAction	Sets the action to perform when the battery is at the critical charge level, defined by criticalBatteryLevel.
root/Power/default/battery/critical/ criticalBatteryLevel	Sets the percentage threshold for when the battery is considered to be at a critical level of power.
root/Power/default/battery/lidAction	Sets the action that occurs when the computer lid is closed while the computer is not connected to AC power. By default, it is set to Sleep.
root/Power/default/battery/low/brightness	Sets the default brightness percentage level for when the battery is running low on power.
root/Power/default/battery/low/cpuMode	Sets the CPU mode (performance or on demand).
<pre>root/Power/default/battery/low/ lowBatteryLevel</pre>	Sets the percentage of battery power left for when the battery is considered to be at a low level of power.
root/Power/default/battery/low/sleep	Sets the value (in minutes) that the computer waits before it enters the Sleep state while the computer is not connected to AC power. By default, it is set to 30. If set to 0, the computer never enters the Sleep state.
root/Power/default/battery/low/standby	Sets the value (in minutes) that the computer waits before the display turns off while the computer is not connected to AC power. By default, it is set to 15. If set to 0, the computer never enters standby mode.
root/Power/default/battery/low/timeoutDim	This key is currently not in use.
root/Power/default/battery/powerButtonAction	Specifies what to do when power button is pressed.
root/Power/default/battery/sleep	Sets how many minutes to wait before entering Sleep. 0 = never.
root/Power/default/battery/standby	Sets how many minutes to wait before turning off the display. 0 = never.
root/Power/default/battery/timeoutDim	This key is currently not in use.

ScepMgr

ScepMgr registry keys.

Table E-20 ScepMgr registry keys

Da winter, hou	Description
Registry key	Description
root/ScepMgr/General/AutoRenew/Enabled	If set to 1, certificates will be renewed automatically before they expire.
root/ScepMgr/General/AutoRenew/TimeFrame	Sets the number of days before a certificate's expiration date that the SCEP Manager will try to renew the certificate automatically.
root/ScepMgr/IdentifyingInfo/CommonName	Sets the common name to use for SCEP identifying information, such as your name or the Fully-Qualified Domain Name (FQDN) of the device. The FQDN is used by default if this value is left empty.
root/ScepMgr/IdentifyingInfo/CountryName	Sets the country or region to use for SCEP identifying information.
root/ScepMgr/IdentifyingInfo/EmailAddress	Sets the email address to use for SCEP identifying information.
root/ScepMgr/IdentifyingInfo/LocalityName	Sets the locality name to use for SCEP identifying information, such as a city name.
root/ScepMgr/IdentifyingInfo/ OrganizationName	Sets the organization name to use for SCEP identifying information, such as a company name or government organization name.
root/ScepMgr/IdentifyingInfo/ OrganizationUnitName	Sets the organizational unit name to use for SCEP identifying information, such as a department name or section name.
root/ScepMgr/IdentifyingInfo/StateName	Sets the state or province to use for SCEP identifying information.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ CertFileChanged</uuid>	The registry key is used only to inform other applications that a certificate file has changed. This should not need to be modified.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ DontVerifyPeer</uuid>	This registry key is used for https only. If set to 1, the SCEP client does not verify the server certificate. This key is set to 0 by default.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ KeySize</uuid>	Sets the key size to use for the generated key pair.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ ServerName</uuid>	Sets the SCEP server name.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ ServerUrl</uuid>	Sets the SCEP server URL, which is necessary for the SCEP client to enroll a certificate.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ Status/Code</uuid>	Contains the status code of the SCEP enrollment. This value is read-only.
root/ScepMgr/ScepEnroll/ScepServers/ <uuid>/ Status/Detail</uuid>	Contains detailed information about the SCEP enrollment. This value is read-only.

Search

Search settings registry keys.

Table E-21 Search settings registry keys

Registry key	Description
root/Search/Category/Miscellaneons/ CheckForUpdate	
root/Search/Category/Miscellaneons/Logout	
root/Search/Category/Miscellaneons/Reboot	
root/Search/Category/Miscellaneons/ShutDown	
root/Search/Category/Miscellaneons/Sleep	
root/Search/Category/Miscellaneons/ SwitchToAdmin	
root/Search/Category/Regeditor/byDir	
root/Search/Category/Regeditor/byKey	
root/Search/Category/Regeditor/byValue	
root/Search/Category/Regeditor/byWhole	

Serial

Serial device registry keys.

Table E-22 Serial device registry keys

Registry key	Description
root/Serial/ <uuid>/baud</uuid>	Sets the speed of the serial device.
root/Serial/ <uuid>/dataBits</uuid>	Sets how many bits are in each character.
root/Serial/ <uuid>/device</uuid>	Specifies the serial device attached to the system.
root/Serial/ <uuid>/flow</uuid>	Sets the flow control of the serial device, which is used to communicate stops and starts of the serial communication.
root/Serial/ <uuid>/name</uuid>	Specifies the Windows device port for communicating with the serial device.
root/Serial/ <uuid>/parity</uuid>	Sets the parity bit of the serial device. The parity bit is used for error detection. If set to none, there is no parity detection.

SystemInfo

System Information registry keys.

Table E-23 System Information registry keys

Registry key	Description
root/SystemInfo/Pages/General	If set to 0, the General tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/License	If set to 0, the Software License tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/NetTools	If set to 0, the Net Tools tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/Network	If set to 0, the Network tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/ SoftwareInformationTab/ServicePacks	If set to 0, the Service Packs tab in the Software Information section of the System Information window is hidden from end users.
root/SystemInfo/Pages/ SoftwareInformationTab/SoftwareInformation	If set to 0, the Software Information tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/ SoftwareInformationTab/SoftwareInstalled	If set to 0, the Software Installed tab in the Software Information section of the System Information window is hidden from end users.
root/SystemInfo/Pages/SystemLogs	If set to 0, the System Logs tab of the System Information window is hidden from end users.
root/SystemInfo/authorized	If set to 0, the System Information button on the taskbar is disabled for end users.

TaskMgr

Task Manager registry key.

Table E-24 Task Manager registry key

Registry key	Description
root/TaskMgr/General/AlwaysOnTop	If set to 1, the Task Manager window is always on top.

USB

USB registry keys.

Table E-25 USB registry keys

Registry key	Description
<pre>root/USB/Classes/<defined at="" interface="" level="">/ClassID</defined></pre>	Sets the USB class ID number.
root/USB/Classes/ <defined at="" interface="" level="">/DisplayName</defined>	Sets the USB class name.
	NOTE: Defined at Interface level.
<pre>root/USB/<defined at="" interface="" level="">/ Classes/State</defined></pre>	Sets whether the class is mapped to the remote host.
	NOTE: Defined at Interface level.

Table E-25 USB registry keys (continued)

Registry key	Description
root/USB/ <defined at="" interface="" level="">/ Classes/Visible</defined>	Sets whether the class is shown in the UI, not shown in the UI, or disabled.
	NOTE: Defined at Interface level.
root/USB/Devices/ <uuid>/DisplayName</uuid>	Sets the name to show in USB Manager. If not supplied, USB Manager will attempt to generate an appropriate name using device information.
root/USB/Devices/ <uuid>/ProductID</uuid>	Sets the product ID of the device.
root/USB/Devices/ <uuid>/State</uuid>	Sets whether this device is mapped to the remote host as follows: 0 = Do Not Redirect; 1 = Use Defaults; 2 = Redirect.
root/USB/Devices/ <uuid>/VendorID</uuid>	Sets the vendor ID of the device.
root/USB/root/autoSwitchProtocol	If set to 1, the remote USB protocol will switch automatically based on which protocol is chosen.
root/USB/root/mass-storage/allowed	If set to 1, mass storage devices will be mounted automatically when the protocol is $local$.
root/USB/root/mass-storage/read-only	If set to 1, when mass storage devices are mounted automatically, they will be mounted as read-only.
root/USB/root/protocol	Sets which protocol owns remote USB. Valid values depend on which protocols are installed on the system but can include local, xen, freerdp, and view.
root/USB/root/showClasses	If set to 1, the Classes section is shown in the USB Manager.

auto-update

Registry keys for Automatic Updates.

Table E-26 Registry keys for Automatic Updates

Registry key	Description
root/auto-update/DNSAliasDir	Sets the default root directory for DNS alias mode on the server hosting HP Smart Client Services.
root/auto-update/LockScreenTimeout	Specifies the timeout (in minutes) after which the screen will unlock during an automatic update. If set to 0, the screen will be unlocked throughout the entire automatic update until the update is complete.
root/auto-update/ManualUpdate	If set to 1, the DHCP tag, DNS alias, and broadcast update methods for Automatic Update are disabled. When performing a manual update, the password, path, protocol, user, and ServerURL registry keys must be set to ensure the update server is known.
root/auto-update/ScheduledScan/Enabled	If set to 1, the thin client performs periodic scans of the Automatic Update server to check for updates. If set to 0, the thin client will only check for updates at system startup.
root/auto-update/ScheduledScan/Interval	Sets the amount of time to wait between scheduled update scans. This should be specified in the ${\rm HH:MM}$ format. Intervals longer than 24 hours can be specified. For example, to have the scans occur every 48 hours, set this to $48:00.$

Table E-26 Registry keys for Automatic Updates (continued)

Registry key	Description
root/auto-update/ScheduledScan/Period	Thin clients will randomly activate their scheduled scan throughout the defined period. Using a long period avoids cases where all thin clients update at exactly the same, which could cause network congestion. The period should be specified in the HH: MM format. For example, to spread thin client updates over a 2.5-hour period, set this to 02:30.
root/auto-update/ScheduledScan/StartTime	Sets the start time of the first scheduled update scan period in the format ${\tt HH:MM}$, using the 24-hour time format. For example, 4:35 p.m. would be 16:35.
root/auto-update/ServerURL	Sets the IP address or domain name of the update server used when Manual Update is enabled.
root/auto-update/VisibleInSystray	If set to 1, the Automatic Update system tray icon is enabled.
root/auto-update/checkCertSig	If set to 1, the certificate signature is verified.
root/auto-update/checkCustomSig	If set to 1, the custom packages signature is verified.
root/auto-update/checkImgSig	Reserved for future use.
root/auto-update/checkPackageSig	If set to 1, the packages signature is verified.
root/auto-update/checkProfileSig	If set to 1, the profiles signature is verified.
root/auto-update/enableLockScreen	If set to 1, the screen locks while an automatic update is in progress.
root/auto-update/enableOnBootup	If set to 1, Automatic Update is enabled at system startup.
root/auto-update/enableSystrayLeftClickMenu	If set to 1, the left-click menu for the Automatic Update system tray icon is enabled.
root/auto-update/enableSystrayRightClickMenu	If set to 1, the right-click menu for the Automatic Update system tray icon is enabled.
root/auto-update/gui/auto-update/ ManualUpdate	Controls the state of the Enable manual configuration widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/ServerURL	Controls the state of the Server widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/ enableLockScreen	Controls the state of the Enable Lock Screen when Automatic Update widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/ enableOnBootup	Controls the state of the Enable Automatic Update on system startup widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-26 Registry keys for Automatic Updates (continued)

Registry key	Description
root/auto-update/gui/auto-update/password	Controls the state of the Password widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/protocol	Controls the state of the Protocol widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/tag	This registry key is either used internally or reserved for future use. The value should not be changed.
root/auto-update/gui/auto-update/user	Controls the state of the User name widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/password	Sets the password used when Manual Update is enabled. This is only used when protocol is set to ftp. This value will be encrypted.
root/auto-update/path	Sets the relative path from the default server URL for when ManualUpdate is enabled. Typically, this is empty or set to auto-update.
root/auto-update/preserveConfig	If set to 1, the current thin client configuration settings will be preserved when an image update occurs via Automatic Update.
root/auto-update/protocol	Sets the protocol used when Manual Update is enabled.
root/auto-update/tag	This registry key is obsolete. It previously set the tag number used for DHCP (137). This is now detected via the tag name auto-update.
root/auto-update/user	Sets the username used when Manual Update is enabled. This is only used when 'protocol' is set to 'ftp'.

background

Background Sysinfo registry keys.

Table E-27 Background Sysinfo registry keys

Registry key	Description
root/background/bginfo/alignment	Sets the Background Sysinfo text alignment.
root/background/bginfo/enabled	If set to 1, system information is displayed on the desktop background (Background Sysinfo).
root/background/bginfo/horizontalLocation	Sets the Background Sysinfo location on the X-axis in a percentage.
root/background/bginfo/interval	Sets the Background Sysinfo text refresh interval in seconds.

Table E-27 Background Sysinfo registry keys (continued)

Registry key	Description
root/background/bginfo/preset	Sets the Background Sysinfo preset file to ${\tt use.}$ If set to ${\tt none,}$ you can customize the settings in Background Manager.
root/background/bginfo/shadowColor	Sets the Background Sysinfo shadow color.
root/background/bginfo/shadowOffset	Sets the Background Sysinfo shadow offset. If set to $^{\circ}$, the shadow is disabled.
root/background/bginfo/text	Sets the Background Sysinfo text. For more information, see the HP ThinPro white paper <i>Login Screen Customization</i> (available in English only).
root/background/bginfo/textColor	Sets the Background Sysinfo text color.
root/background/bginfo/textSize	Sets the Background Sysinfo text size.
root/background/bginfo/verticalLocation	Sets the Background Sysinfo location on the Y-axis in a percentage.
root/background/desktop/color	Specifies the solid color, the background color if any is visible behind the image, or the top color in a gradient.
root/background/desktop/color2	If theme is set to ${\tt gradient}$, this key stores the bottom color in the gradient.
root/background/desktop/imagePath	If theme is set to either none or image, this key stores the desktop background image path used by the user-defined theme.
root/background/desktop/lastBrowseDir	If theme is set to none, this key stores the last used directory.
root/background/desktop/style	If theme is set to none, this key stores how the background image is placed on the desktop (such as center, tile, stretch, fit, and fill).
root/background/desktop/theme	Specifies the system theme setting. This value is set via the Background Manager tool in Control Panel. The valid values depend on the themes that exist on the system. This can be set to none or image to let the user define a background image, to auto to have the system automatically set the appropriate protocol's theme for Smart Zero, or to default to use the default theme for ThinPro, or one of several predefined themes.
root/background/desktop/updateInterval	Sets the background refresh interval in seconds.

boot

Boot registry keys.

Table E-28 Boot registry keys

Registry key	Description
root/boot/enablePlymouth	
root/boot/extraCmdline	

config-wizard

Config-wizard registry keys

Table E-29 Config-wizard registry keys

Registry key	Description
root/config-wizard/configWizardOptions	Specifies, in a space-separated list, which configuration wizard options are displayed. By default, all options (language, keyboard, network, datetime, end) are listed.
root/config-wizard/disableAllChecksAtStartup	If set to 1, all checks at startup are disabled. If set to 0, you can enable/disable each type of check individually with the registry keys enableConnectionCheck, enableNetworkCheck, and enableUpdateCheck.
root/config-wizard/enableConfigWizard	If set to 1, the configuration wizard at system startup is enabled.
root/config-wizard/enableConnectionCheck	If set to 1, the connection check at system startup is enabled.
root/config-wizard/enableNetworkCheck	If set to 1, the network check at system startup is enabled.
root/config-wizard/showNetworkSettingsButton	If set to 1, the network settings button is shown in the network check window.

desktop

Desktop registry keys.

Table E-30 Desktop registry keys

Registry key	Description
root/desktop/preferences/arrangeBy	Specifies whether to arrange icons by name or type.
root/desktop/preferences/fontFamily	Specifies the font used for desktop icons.
root/desktop/preferences/gridSize	Specifies, in pixels, the desktop icon grid size. If set to a value less than 64, the size is computed as a proportion of the monitor size.
root/desktop/preferences/iconGlowColor	Specifies the color that glows behind the desktop icon when a pointer hovers over it. Valid strings are in the style ${\tt QColor::setNamedColor().If\ not\ set, the\ system\ chooses}$ a color that contrasts with the background.
root/desktop/preferences/iconPercent	Specifies the percentage of the grid size to use for the icon. If the value is greater than 0, it is calculated as a proportion of the grid size.
root/desktop/preferences/iconShadowColor	Specifies the shadow color behind the desktop icon and text. Valid strings are in the style $QColor::setNamedColor()$. If not set, the system chooses a color that contrasts with the background.
root/desktop/preferences/menu/arrange/ authorized	Specifies whether users can use the arrange function on the desktop.
root/desktop/preferences/menu/create/ authorized	Specifies whether users can create connections from the right-click menu on the desktop.

Table E-30 Desktop registry keys (continued)

Registry key	Description
root/desktop/preferences/menu/drag/ authorized	Specifies whether users can drag and drop icons on the desktop.
root/desktop/preferences/menu/lockScreen/ authorized	Specifies whether users can lock the screen from the right-click menu on the desktop.
root/desktop/preferences/menu/logout/ authorized	Specifies whether users can log out from the right-click menu on the desktop.
root/desktop/preferences/menu/modeSwitch/ authorized	Specifies whether users can switch to administrator mode from the right-click menu on the desktop.
root/desktop/preferences/menu/power/ authorized	Specifies whether users can access the power submenu from the right-click menu on the desktop.
root/desktop/preferences/menu/poweroff/ authorized	Specifies whether users can turn off the system from the right- click menu on the desktop.
root/desktop/preferences/menu/reboot/ authorized	Specifies whether users can restart the system from the right-click menu on the desktop.
root/desktop/preferences/menu/sleep/ authorized	Specifies whether users can put the system into the Sleep state from the right-click menu on the desktop.
root/desktop/preferences/menuTextSize	Specifies the height of the desktop menu text in pixels. If nonpositive, the height is calculated as a proportion of the monitor size.
root/desktop/preferences/screenMargin	Specifies the margin between the screen edges and icons.
root/desktop/preferences/textBold	Specifies whether to bold the text.
root/desktop/preferences/textColor	Specifies the text color for the desktop icons. Valid strings are in the style $QColor::setNamedColor()$. If not set, the system chooses a color that contrasts with the background.
root/desktop/preferences/textShadowColor	Specifies the shadow color behind desktop icons and text. Valid strings are in the style $QColor::setNamedColor()$. If not set, the system chooses a color that contrasts with the text color.
root/desktop/preferences/textSize	Specifies the height of the desktop icon text in pixels. If nonpositive, the height is calculated as a proportion of the monitor size.
root/desktop/shortcuts/ <action>/command</action>	Sets the command that is run by the shortcut.
root/desktop/shortcuts/ <action>/enabled</action>	If set to 1, the shortcut is enabled.
root/desktop/shortcuts/ <action>/shortcut</action>	Sets the shortcut name.
	Sets the shortcut mode.

domain

Domain registry keys.

Table E-31 Domain registry keys

Registry key	Description
root/domain/OU	Specifies the organizational unit associated with the thin client's domain membership.
root/domain/allowSmartcard	This key is currently unused.
root/domain/cacheDomainLogin	If enabled, a hash of domain login credentials is saved to disk so that subsequent logins can occur even if the Active Directory server is inaccessible.
root/domain/ddns	If enabled, the thin client attempts to update the DNS server with its hostname and IP address during each DHCP renewal.
root/domain/domain	Specifies the domain to which this thin client is joined or to which this thin client is authenticating against.
root/domain/domainAdminGroup	If enableDomainAdmin is enabled, members of this AD group can switch the thin client to administrator mode.
root/domain/domainControllers	Specifies a comma-separated list of domain controllers to use with this domain. If left blank (recommended), automatic lookup of domain controllers is performed using DNS instead.
root/domain/domainJoined	Indicates if the thin client has been formally added to the domain.
root/domain/domainUsersGroup	If enableDomainUsers is enabled, domain logins are limited to direct members of this group. Nested groups are not supported for this feature.
root/domain/enableDomainAdmin	If set to 1, members of the group listed in <code>domainAdminGroup</code> can switch the thin client to administrator mode. If set to 0, the local root account must be used to perform local administrative tasks.
root/domain/enableDomainUsers	If set to 1, domain logins are limited to members of the group listed in domainUserGroup. If set to 0, any valid domain credential is permitted to log in to the thin client.
root/domain/enablePasswordChange	If set to 1, the user can change their domain password directly from the thin client.
root/domain/enableSSO	If enabled, encrypted current credentials are cached in memory and they can be reused when starting remote connections.
root/domain/loginAtStart	If set to 1, and if the thin client has been added to a domain, a login screen is displayed when the thin client starts up. Otherwise, the legacy ThinPro shared desktop is displayed at startup.
root/domain/retainUserRegistry	If set to 1, any custom setting changes made by the user are retained between login sessions.
root/domain/workgroup	Specifies the workgroup or "short domain" associated with the thin client's domain membership. This is also referred to as the NetBIOS domain name during creation of the Active Directory domain. This value is usually auto-detected during domain authentication by looking up the value from a domain controller.

entries

Entries registry keys.

Table E-32 Entries registry keys

Registry key	Description
root/entries/ <uuid>/command</uuid>	
root/entries/ <uuid>/folder</uuid>	
root/entries/ <uuid>/icon</uuid>	
root/entries/ <uuid>/label</uuid>	
root/entries/ <uuid>/metaInfo</uuid>	
root/entries/ <uuid>/onDesktop</uuid>	
root/entries/ <uuid>/onMenu</uuid>	

firewall

Registry keys for firewall settings.

Table E-33 Registry keys for firewall settings

Registry key	Description
root/firewall/direct/pptp-rule	
root/firewall/icmp-blocks	
root/firewall/interfaces	
root/firewall/masquerade	
root/firewall/ports	
root/firewall/services/ <service>/checked</service>	
root/firewall/services/ <service description<="" td=""><td></td></service>	
<pre>root/firewall/services/<service>/ destinations/ipv4</service></pre>	
<pre>root/firewall/services/<service>/ destinations/ipv6</service></pre>	
root/firewall/services/ <service>/modules</service>	
root/firewall/services/ <service>/port-protocols</service>	

Table E-33 Registry keys for firewall settings (continued)

Registry key	Description
root/firewall/services/ <service>/short</service>	
root/firewall/sources	
root/firewall/startAtBoot	

hwh264

hwh264 registry key.

Table E-34 hwh264 registry key

Registry key	Description
root/hwh264/force2x4k	HP does not recommend changing the value of this key.
	In some Citrix H264 desktop configurations, large desktop streams with dual monitors cause a flickering effect. H264 is usually disabled for large streams due to this issue.

keyboard

Registry keys for keyboard settings.

Table E-35 Registry keys for keyboard settings

Registry key	Description
root/keyboard/DrawLocaleLetter	If set to 1, the keyboard system tray icon will draw the language locale string instead of using static images.
root/keyboard/SystrayMenu/keyboardLayout	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the Keyboard Layout tool in Control Panel.
root/keyboard/SystrayMenu/languages	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the Language tool in Control Panel.
root/keyboard/SystrayMenu/virtualKeyboard	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the virtual keyboard.
root/keyboard/VisibleInSystray	If set to 1, the keyboard system tray icon is displayed and indicates the current keyboard layout.
root/keyboard/XkbLayout	This is an internal key used to map to an XKB keyboard layout. This key should not need to be modified.
root/keyboard/XkbModel	This is an internal key used to map to an XKB keyboard model. This key should not need to be modified.
root/keyboard/XkbOptions	This is an internal key used to map to XKB keyboard options. This key should not need to be modified.
root/keyboard/XkbVariant	This is an internal key used to map to an XKB keyboard variant. This key should not need to be modified.

Table E-35 Registry keys for keyboard settings (continued)

Registry key	Description
root/keyboard/enable2	If set to 1, the secondary keyboard layout can be switched to via the keyboard shortcut defined by <code>switch</code> .
root/keyboard/layout	Sets the primary keyboard layout.
root/keyboard/layout2	Sets the secondary keyboard layout.
root/keyboard/model	Sets the primary keyboard model.
root/keyboard/model2	Sets the secondary keyboard model.
root/keyboard/numlock	If set to 1, the Num Lock function is enabled at system startup. This registry key is intentionally ignored on mobile thin clients.
root/keyboard/switch	Sets the keyboard shortcut for switching between the first and second keyboard layout (enable2 must also be set to 1). Valid values are as follows: grp:ctrl_shift_toggle, grp:ctrl_alt_toggle, grp:alt_shift_toggle.
root/keyboard/variant	Sets the primary keyboard variant.
root/keyboard/variant2	Sets the secondary keyboard variant.

license

Registry keys for license notifiaction settings.

Table E-36 Registry keys for license notifiaction settings

Registry key	Description
root/license/courtesyNotificationEnable	If set to 1, systray notifications are enabled as license expiration approaches.
root/license/courtesyNotificationInterval	If positive, number of hours between courtesy notifications.
root/license/courtesyNotificationStart	If positive, courtesy notifications start this many days before expiration.
root/license/courtesyNotificationText	If not blank, this text is used in courtesy notifications. %1 is replaced with the number of days left before expiration; %2 is replaced with the expiration date.
root/license/watermark	This value is ready-only.

logging

Logging registry keys.

Table E-37 Logging registry keys

Registry key	Description
root/logging/general/debugLevel	Sets the debug level. This value will be leveraged by other modules to generate the corresponding logs.
root/logging/general/showDebugLevelBox	If set to 1, the Debug level option on the System Logs tab of the System Information window will be available to end users. If set to 0, the option is available to administrators only.

login

Login settings registry keys.

Table E-38 Login settings registry keys

Registry key	Description
root/login/buttons/configure/authorized	If set to 1, the Configuration button is available at the login screen.
root/login/buttons/info/authorized	If set to 1, the System Information button is available at the login screen.
root/login/buttons/keyboard/authorized	If set to 1, keyboard layout settings can be configured at the login screen.
root/login/buttons/locale/authorized	If set to 1, language settings can be configured at the login screen.
root/login/buttons/mouse/authorized	If set to 1, mouse settings can be configured at the login screen.
root/login/buttons/onscreenKeyboard/ authorized	If set to 1, the onscreen keyboard is available at the login screen.
root/login/buttons/power/authorized	If set to 1, the power button is available at the login screen.
root/login/buttons/poweroff/authorized	If set to 1, the shut down function is available at the login screen.
root/login/buttons/reboot/authorized	If set to 1, the restart function is available at the login screen.
root/login/buttons/show/authorized	If set to 1, the button drawer containing additional options is available at the login screen.
root/login/buttons/sleep/authorized	If set to 1, the Sleep function is available at the login screen.
root/login/buttons/touchscreen/authorized	If set to 1, touch screen settings can be configured at the login screen. The registry key root/touchscreen/enabled must also be enabled.
root/login/rememberedDomain	
root/login/rememberedUser	

mouse

Mouse settings registry keys.

Table E-39 Mouse settings registry keys

Registry key	Description
root/mouse/MouseHandedness	If set to 0, the mouse is right-handed. If set to 1, the mouse is left-handed.
root/mouse/MouseSpeed	Sets the acceleration of the mouse pointer. Typically, a value from 0 to 25 is in the usable range. A value of 0 completely disables acceleration, causing the mouse to move at a constant slow, but measurable pace.
root/mouse/MouseThreshold	Sets the number of pixels before mouse acceleration is enabled. A value of 0 sets the acceleration to a natural curve that gradually scales acceleration, allowing for both precise and quick movements.
root/mouse/disableTrackpadWhileTyping	If set to 1, the trackpad will temporarily be disabled while typing. If set to 0, the trackpad will not be temporarily disabled while typing.
root/mouse/enableNaturalScrolling	If set to 1 (default), Natural Scrolling is enabled on the trackpad. If set to 0, Natural Scrolling is disabled on the trackpad.
root/mouse/enableTrackpad	If set to 1, the trackpad is enabled. If set to 0, the trackpad is disabled.
root/mouse/enableTrackpadTapping	If set to 0 (default), the tap-to-click behavior of the trackpad is disabled. If set to 1, tap-to-click behavior is enabled.
root/mouse/enableTwoFingerScrolling	If set to 1 (default), two finger scrolling is enabled on the trackpad. If set to 0, two finger scrolling is disabled on the trackpad.
root/mouse/gui	

restore-points

Registry key for restore-points.

Table E-40 Registry settings for restore-points

Registry key	Description
root/restore-points/factory	Specifies which snapshot to use for a factory reset.

screensaver

Screensaver settings registry keys.

Table E-41 Screensaver settings registry keys

Registry key	Description
root/screensaver/SlideShowAllMonitors	If set to 1, the screen saver slide show will be shown on all monitors. If set to 0, the slide show will be shown on the primary monitor only.
root/screensaver/SlideShowInterval	Sets the interval in seconds for switching images in the screen saver slide show.

Table E-41 Screensaver settings registry keys (continued)

Registry key	Description
root/screensaver/SlideShowPath	Specifies the directory that contains the images for the screen saver slide show.
root/screensaver/buttons/configure/ authorized	If set to 1, the Configuration button is available while the screen is locked.
root/screensaver/buttons/info/authorized	If set to 1, the System Information button is available while the screen is locked.
root/screensaver/buttons/keyboard/authorized	If set to 1, keyboard layout settings can be configured while the screen is locked.
root/screensaver/buttons/locale/authorized	If set to 1, language settings can be configured while the screen is locked.
root/screensaver/buttons/mouse/authorized	If set to 1, mouse settings can be configured while the screen is locked.
root/screensaver/buttons/onscreenKeyboard/ authorized	If set to 1, the onscreen keyboard is available while the screen is locked.
root/screensaver/buttons/power/authorized	If set to 1, the power button is available while the screen is locked.
root/screensaver/buttons/poweroff/authorized	If set to 1, the shut down function is available while the screen is locked.
root/screensaver/buttons/reboot/authorized	If set to 1, the restart function is available while the screen is locked.
root/screensaver/buttons/show/authorized	If set to 1, the button drawer containing additional options is available while the screen is locked.
root/screensaver/buttons/sleep/authorized	If set to 1, the Sleep function is available while the screen is locked.
root/screensaver/buttons/touchscreen/authorized	If set to 1, touch screen settings can be configured while the screen is locked. The registry key root/touchscreen/enabled must also be enabled.
root/screensaver/enableCustomLogo	If set to 1, the custom image defined in $\log oPath$ is used for the screen saver.
root/screensaver/enableDPMS	If set to 0, monitor power management is disabled. This causes the monitor to always stay on unless turned off manually.
root/screensaver/enableScreensaver	If set to 1, the screen saver is enabled.
root/screensaver/enableSleep	If set to 1, Sleep is enabled.
root/screensaver/lockScreen	If set to 1 and you are logged into administrator mode, a password is required to return to the desktop from the screen saver.
root/screensaver/lockScreenDomain	If set to 1 and the system is in domain mode, a password is required to return to the desktop from the screen saver.
root/screensaver/lockScreenUser	If set to 1 and you are not logged in as an administrator and the system is not in domain mode, a password is required to return to the desktop from the screen saver.
root/screensaver/logoPath	Sets the path to a custom image to use for the screen saver.

Table E-41 Screensaver settings registry keys (continued)

Registry key	Description
root/screensaver/mode	Sets the rendering mode for the screen saver image (such as Center, Tile, Expand, and Stretch). If set to Default, the image is displayed without any processing. If set to SlideShow, the screen saver will cycle through images in the directory specified by SlideShowPath.
root/screensaver/off	Sets the timeout delay in minutes before the monitor turns off.
root/screensaver/origImageCopyPath	This is the path where the custom image is saved when mode is set to Default.
root/screensaver/solidColor	If useSolidColor is on and enableCustomLogo is off, this solid color is used for the screen saver.
root/screensaver/standby	Sets the timeout delay in minutes before the monitor goes into standby mode.
root/screensaver/suspend	Sets the timeout delay in minutes before the monitor goes into suspend mode.
root/screensaver/timeoutScreensaver	Sets the timeout delay in minutes before the screen saver starts.
root/screensaver/timeoutSleep	Sets the timeout delay in minutes before the thin client goes into the Sleep state.
root/screensaver/useSolidColor	If set to 1 and enableCustomLogo is off, the value of the solidColor key is used by the screen saver.

security

Security settings registry keys.

Table E-42 Security settings registry keys

Registry key	Description
root/security/SecurityFeaturs/ SpeculativeStoreBypassControl	Controls whether mitigations for Speculative Store Bypass (CVE-2018-3639) are enabled. By default, these mitigations are not enabled. To enable them, set the key value to on.
	For any change to this key to take effect, reboot the computer.
root/security/authenticationFailDelay	Sets the approximate time, in milliseconds, to delay after a failed login attempt. The actual time will vary plus or minus 25% of this value. For example, use a value of 3000 to obtain a delay of approximately 3 seconds.
root/security/domainEntryMode	If set to 1, the domain is expected to be entered in a separate text field labeled Domain . if set to 0, the domain is expected to be entered as part of the User field.
root/security/enableLockOverride	If set to 1, administrators can override the screen lock of a local desktop.
root/security/enableSecretPeek	If set to 1, password and PIN dialogs will have a button that, while selected, will show the entered password/PIN in clear text.

Table E-42 Security settings registry keys (continued)

Registry key	Description
root/security/encryption/identity/ encryptedSecretCipher	Sets the algorithm for symmetric encryption of a secret. All algorithms use an appropriate amount of random salt, which is regenerated each time the secret is stored. The encryption key is different on each thin client, and encryption and decryption are available only to authorized programs. The supported cipher list includes most OpenSSL ciphers and ChaCha20–Poly1305.
<pre>root/security/encryption/identity/ encryptedSecretTTL</pre>	Sets the number of seconds since the last successful login that a stored encrypted secret will be considered valid. If set to a negative number, encrypted secrets will not time out.
root/security/encryption/identity/ encryptedSecretTTLnonSSO	Specifies the number of seconds that a stored, non-SSO encrypted secret is considered valid. If set to a nonpositive number, encrypted secrets do not time out.
root/security/encryption/identity/ secretHashAlgorithm	Sets the algorithm for creating a hash of a secret. Key Derivation Functions (KDFs) such as scrypt or argon2 are better than straightforward hashes because it is not quick to compute a rainbow dictionary using a KDF. All algorithms use an appropriate amount of random salt, which is regenerated each time the secret is hashed. The supported list includes scrypt, Argon2, SHA-256, and SHA-512 (though the latter two are not KDFs).
root/security/encryption/identity/ secretHashTTL	Sets the number of seconds since the last successful login that a stored hashes of secrets will be considered valid. If set to a negative number, hashes of secrets will not time out.
root/security/mustLogin	If set to 1, all users are forced to log in before accessing the desktop.

shutdown

Shutdown settings registry keys.

Table E-43 Shutdown settings registry keys

Registry key	Description
root/shutdown/enableAutomaticShutdownTimeout	If set to 1, a progress bar is shown in the shutdown/restart/logout confirmation dialog box. If the question is not answered in time, automatically shutdown/restart/logout.
root/shutdown/timeOfAutomaticShutdownTimeout	Sets the wait time for automatic shutdown timeout.

sshd

sshd registry keys.

Table E-44 sshd registry keys

Registry key	Description
root/sshd/disableWeakCipher	If set to 1, disable the CBC mode cipher and other known weak ciphers, such as 3DES, arcfour, etc.
root/sshd/disableWeakHmac	If set to 1, disable 96 bit hmac and any sha1—based and md5—based hmac.

Table E-44 sshd registry keys (continued)

Registry key	Description
root/sshd/disableWeakKex	If set to 1, disable key exchange algorithms that have DH with SHA1.
root/sshd/enabled	If set to 1, the SSH daemon is enabled and the thin client can be accessed via SSH.
root/sshd/userAccess	If set to 1, end users can connect to the thin client via SSH.

time

Time and date settings registry keys.

Table E-45 Time registry keys

Registry key	Description
root/time/NTPServers	Specifies NTP servers to use via a comma-separated list. Private NTP servers or large virtual NTP clusters such as pool.ntp.org are the best choices to minimize server load. Clear this value to return to using DHCP servers (tag 42) instead of a fixed list.
root/time/dateFormatLong	An optional way to override the long date format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.
root/time/dateFormatShort	An optional way to override the short date format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.
root/time/dateTimeFormatLong	An optional way to override the long date&time format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.
root/time/dateTimeFormatShort	An optional way to override the short date&time format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.
root/time/hideCountries	A semicolon-separated list of countries that you want hidden in the time zone selection GUI.
root/time/hideMap	If set to 1, the map is not drawn. This might be preferable in instances where boundaries are in dispute.
root/time/hideWinZones	A semicolon-separated list of Windows-format time zones, such as "(UTC+2:00) Tripoli," that you want hidden in the time zone selection GUI.
root/time/hideZones	A semicolon-separated list of Linux-format time zones, such as "America/Denver", that you want hidden in the time zone selection GUI.
root/time/timeFormatLong	An optional way to override the long time format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.

Table E-45 Time registry keys (continued)

Registry key	Description
root/time/timeFormatShort	An optional way to override the short time format used in various ThinPro tools. For formatting, do a web search for QDate::toString. If left blank, a locale-specific string is usually used.
root/time/timezone	Sets the time zone. Time zones should be specified as defined by Linux Timezone in the Date and Time tool in Control Panel, and they should be in the following format:
	<region>/<subregion></subregion></region>
root/time/use24HourFormat	If set to -1, the system chooses the format automatically according to the locale. If set to 0, the a.m./p.m. format is used. If set to 1, the 24-hour format is used.
root/time/useADDNSTimeServers	If set to 1, the thin client will attempt to set the time zone via the Active Directory domain controllers auto-discovered on the local network. It does this via the following DNS query for SRV records: _ldaptcp.dcmsdcs.domain.
root/time/useDHCPTimezone	If set to 1, the thin client will attempt to set the time zone via DHCP. To properly set the time zone via this registry key, ensure that the DHCP server for the thin client forwards the $tcode$ DHCP tag (which is usually tag 101, although 100 and 2 can work also).
root/time/useNTPServers	If set to 1, the use of NTP time servers to synchronize the thin client clock is enabled. If this is enabled, ensure that an NTP server is specified via DHCP or via NTPServers.

touchscreen

Touchscreen settings registry keys.

Table E-46 Touchscreen settings registry keys

Registry key	Description
root/touchscreen/beep	Defines whether the thin client beeps when the touch screen is used.
root/touchscreen/calibrated	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/enabled	If set to 1, touch input is enabled.
root/touchscreen/maxx	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/maxy	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/minx	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/miny	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/port	Specifies the port that is connected to the touch screen.
root/touchscreen/swapx	This registry key is either used internally or reserved for future use. The value should not be changed.

Table E-46 Touchscreen settings registry keys (continued)

Registry key	Description
root/touchscreen/swapy	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/type	Specifies the controller type of the touch screen.

translation

Translation settings registry keys.

Table E-47 Translation settings registry keys

Registry key	Description
<pre>root/translation/coreSettings/localeMapping/ <languagecode></languagecode></pre>	These are internal keys used to provide the text string next to the appropriate language on the language selector. These keys should not need to be modified.
root/translation/coreSettings/localeSettings	Sets the locale for the thin client. This locale will also be forwarded to the remote connection. Valid locales are <code>en_US</code> (English), <code>de_DE</code> (German), <code>es_ES</code> (Spanish), <code>fr_FR</code> (French), <code>ru_RU</code> (Russian), <code>ja_JP</code> (Japanese), <code>ko_KR</code> (Korean), <code>zh_CN</code> (Simplified Chinese), and <code>zh_TW</code> (Traditional Chinese).
root/translation/gui/LocaleManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/widgets/localeSettings	Controls the state of the locale setting widget in the Language tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

usb-update

USB-update registry keys.

Table E-48 usb-update registry keys

Registry key	Description
root/usb-update/authentication	If set to 1, an administrator password is required to do USB updates.
root/usb-update/enable	If set to 1, USB update auto-detection is enabled.
root/usb-update/height	Sets the height of the USB Update window in pixels.
root/usb-update/searchMaxDepth	Sets the depth of subdirectories to be searched for updates. Setting a high search depth can cause delays on USB flash drives that have thousands of directories.

Table E-48 usb-update registry keys (continued)

Registry key	Description
root/usb-update/width	The width of the USB Update window in pixels.

users

User settings registry keys.

Table E-49 User settings registry keys

Registry key	Description
root/users/root/enablePassword	If enabled, logins to the local root administrator account are enabled. If disabled, only Active Directory administrators can change the thin client to administrator mode.
root/users/root/password	Sets the administrator password. If empty, administrator mode is locked.
root/users/root/timeout	Specifies the idle timeout (in minutes) after which administrator mode will be terminated. If set to 0 or negative, administrator mode will never be automatically terminated.
root/users/user/SSO	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/WOL	If set to 1, Wake On LAN (WOL) is enabled.
root/users/user/XHostCheck	If set to 1, only the systems listed under root/users/user/ xhosts are allowed to remotely control the thin client.
root/users/user/apps/hptc-ad-change- password/authorized	If set to 1, the Change Domain Password Control Panel item is accessible by end users.
root/users/user/apps/hptc-ad-mgr/authorized	If set to 1, the Active Directory Control Panel item is accessible by end users.
root/users/user/apps/hptc-agent-mgr/ authorized	If set to 1, the HPDM/HPCEM Agent Control Panel item is accessible by end users.
root/users/user/apps/hptc-auto-update/ authorized	If set to 1, the Automatic Update Control Panel item is accessible by end users.
root/users/user/apps/hptc-background-mgr/authorized	If set to 1, the Background Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-cert-mgr/ authorized	If set to 1, the Certificate Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-compatibility/ authorized	If set to 1, the Compatibility Check Control Panel item is accessible by end users.
root/users/user/apps/hptc-component-mgr/authorized	If set to 1, the Component Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-config-wizard/authorized	If set to 1, the Initial Setup Wizard Start menu item is accessible by end users.

Table E-49 User settings registry keys (continued)

Registry key	Description
root/users/user/apps/hptc-connection-wizard/ authorized	If set to 1, Create a Connection is accessible by end users.
root/users/user/apps/hptc-control-panel/ authorized	If set to 1, Control Panel is accessible by end users.
root/users/user/apps/hptc-date-mgr/ authorized	If set to 1, the Date and Time Control Panel item is accessible by end users.
root/users/user/apps/hptc-dhcp-mgr/ authorized	If set to 1, the DHCP Options Control Panel item is accessible by end users.
root/users/user/apps/hptc-display-prefs/ authorized	If set to 1, the Display Control Panel item is accessible by end users.
root/users/user/apps/hptc-easy-update/ authorized	If set to 1, the Easy Update Control Panel item is accessible by endusers.
root/users/user/apps/hptc-factory-reset/ authorized	If set to 1, the Factory Reset Control Panel item is accessible by end users.
root/users/user/apps/hptc-firewalld-mgr/ authorized	If set to 1, the Firewall Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-i18n-mgr/ authorized	If set to 1, the Language Control Panel item is accessible by end users.
root/users/user/apps/hptc-ibus-mgr/ authorized	If set to 1, the Ibus Input Method Control Panel item is accessible by end users.
root/users/user/apps/hptc-imprivata-mgr/ authorized	If set to 1, the Imprivata Setup Control Panel item is accessible by end users.
root/users/user/apps/hptc-keyboard-layout/ authorized	If set to 1, the Keyboard Layout Control Panel item is accessible by end users.
root/users/user/apps/hptc-kiosk/authorized	If set to 1, Connection Manager is accessible by end users.
root/users/user/apps/hptc-licenses/ authorized	If set to 1, HP License Agreement is accessible by end users.
root/users/user/apps/hptc-mixer/authorized	If set to 1, the Sound Control Panel item is accessible by end users.
root/users/user/apps/hptc-mouse/authorized	If set to 1, the Mouse Control Panel item is accessible by end users.
root/users/user/apps/hptc-network-mgr/ authorized	If set to 1, the Network Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-power-mgr/ authorized	If set to 1, the Power Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-printer-mgr/ authorized	If set to 1, the Printers Control Panel item is accessible by end users.

Table E-49 User settings registry keys (continued)

Registry key	Description
root/users/user/apps/hptc-regeditor/ authorized	If set to 1, Registry Editor is accessible by end users.
root/users/user/apps/hptc-restore/authorized	If set to 1, the Snapshots Control Panel item is accessible by end users.
root/users/user/apps/hptc-scep-mgr/ authorized	If set to 1, the SCEP Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-security/ authorized	If set to 1, the Security Control Panel item is accessible by end users.
root/users/user/apps/hptc-serial-mgr/ authorized	If set to 1, the Serial Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-shortcut-mgr/ authorized	If set to 1, the Keyboard Shortcuts Control Panel item is accessible by end users.
root/users/user/apps/hptc-snipping-tool/ authorized	If set to 1, the Snipping Tool Start menu item is accessible by end users.
root/users/user/apps/hptc-sshd-mgr/ authorized	If set to 1, the SSHD Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-switch-admin/ authorized	If set to 1, Switch to Administrator/User is accessible by end users.
root/users/user/apps/hptc-sysinfo/authorized	If set to 1, System Information is accessible by end users.
root/users/user/apps/hptc-task-mgr/ authorized	If set to 1, the Task Manager Start menu item is accessible by end users.
root/users/user/apps/hptc-text-editor/ authorized	If set to 1, the Text Editor Start menu item is accessible by end users.
root/users/user/apps/hptc-thinstate/ authorized	If set to 1, the ThinState Control Panel item is accessible by end users.
root/users/user/apps/hptc-touchscreen/ authorized	If set to 1, the Touch Screen Control Panel item is accessible by end users.
root/users/user/apps/hptc-update/authorized	If set to 1, Check for Updates is accessible by end users.
root/users/user/apps/hptc-usb-mgr/authorized	If set to 1, the USB Manager Control Panel item is accessible by end users.
root/users/user/apps/hptc-user-rights/ authorized	If set to 1, the Customization Center Control Panel item is accessible by end users.
root/users/user/apps/hptc-vncshadow/ authorized	If set to 1, the VNC Shadow Control Panel item is accessible by end users.
root/users/user/apps/hptc-wlsstat/authorized	If set to 1, Wireless Statistics is accessible by end users.

Table E-49 User settings registry keys (continued)

Registry key	Description
<pre>root/users/user/apps/hptc-xen-general-mgr/ authorized</pre>	If set to 1, the Citrix general settings are accessible by end users.
root/users/user/apps/hptc-xterm/authorized	If set to 1, X Terminal is accessible by end users.
	CAUTION: Enabling X terminal access is a security risk and is not recommended in a production environment. The X terminal should only be enabled for use in debugging a protected, non-production environment.
root/users/user/desktopScaling	Specifies the percentage to increase or decrease the size of desktop elements. If set to 100 (default), standard scaling is used. If set to 50, half the size of standard scaling is used. If set to 200, double the size of standard scaling is used.
root/users/user/enablePassword	If enabled, logins to the local shared account user are enabled.
root/users/user/hideDesktopPanel	If set to 1, desktop panels such as the taskbar are not started or shown in the desktop.
root/users/user/kioskMode	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/launchConnectionManager	If set to 1, Connection Manager launches at system startup.
root/users/user/rightclick	If set to 1, the right-click menu for the desktop is enabled.
root/users/user/ssoconnectiontype	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/switchAdmin	If set to 1, switching to administrator mode is enabled.
root/users/user/theme	Reserved for future use.
root/users/user/xhosts/ <uuid>/xhost</uuid>	Specifies the IP address or hostname of a system that will be allowed to remotely control the thin client when XHostCheck is enabled.

vncserver

vncserver registry keys.

Table E-50 vncserver registry keys

Registry key	Description
root/vncserver/coreSettings/enableVncShadow	If set to 1, the VNC shadowing server for the thin client is enabled.
root/vncserver/coreSettings/ userNotificationMessage	Sets the notification message that is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/ vncAllowLoopbackOnly	If set to 1, only a localhost or loopback address is allowed for VNC connections.
root/vncserver/coreSettings/ vncDefaultNumLockStatus	If set to 1, Num Lock is on by default. If set to 0, Num Lock is off by default.

Table E-50 vncserver registry keys (continued)

Registry key	Description
root/vncserver/coreSettings/ vncNotifyShowTimeout	If set to 1, a timeout is applied to the notification dialog that is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncNotifyTimeout	Sets the timeout in seconds for the notification dialog that is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncNotifyUser	If set to 1, a notification is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncPassword	Sets the password for VNC shadowing. The key vncUsePassword must also be enabled.
root/vncserver/coreSettings/vncReadOnly	If set to 1, VNC shadowing will operate in view-only mode.
root/vncserver/coreSettings/ vncRefuseInDefault	If set to 1, VNC requests are refused automatically if the user does not interact with the notification dialog before the timeout.
root/vncserver/coreSettings/vncStopButton	If set to 1, an always-on-top button is shown on the left corner of the screen. Selecting that button disconnects the VNC session.
root/vncserver/coreSettings/ vncTakeEffectRightNow	If set to 1, VNC settings take effect immediately after being modified.
root/vncserver/coreSettings/vncUseHTTP	If set to 1, HTTP port 5800 is open for VNC connections.
root/vncserver/coreSettings/vncUsePassword	If set to 1, the password specified in <code>vncPassword</code> is required for VNC shadowing.
root/vncserver/coreSettings/vncUseSSL	If set to 1, SSL is used for VNC connections.
root/vncserver/gui/VNCShadowManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/widgets/ enableVncShadow	Controls the state of the Enable VNC Shadow widget in the VNC Shadow tool. If set to active, the widget is visible in the UI
	and the user can interact with it. If set to <code>inactive</code> , the widget is hidden. If set to <code>read-only</code> , the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ userNotificationMessage	Controls the state of the User Notification Message widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/vncAllowLoopbackOnly	Controls the state of the Allow Loopback Connections Only widget in the VNC Shadow utility. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Table E-50 vncserver registry keys (continued)

Registry key	Description
root/vncserver/gui/VNCShadowManager/widgets/vncNotifyShowTimeout	Controls the state of the VNC Show Timeout for Notification widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncNotifyTimeout	Controls the state of the numerical widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncNotifyUser	Controls the state of the VNC Notify User to Allow Refuse widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncPassword	Controls the state of the Set Password widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncReadOnly	Controls the state of the VNC Read Only widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncRefuseInDefault	Controls the state of the Refuse connections in default widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/vncStopButton	Controls the state of the VNC Stop Shadow button widget in the VNC Shadow utility. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncTakeEffectRightNow	Controls the state of the Re-set VNC server right now widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/ vncUseHTTP	Controls the state of the VNC Use HTTP Port 5800 widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncUsePassword	Controls the state of the VNC Use Password widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncUseSSL	Controls the state of the VNC Use SSL widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

zero-login

Smart Zero registry keys.

Table E-51 Smart Zero registry keys

Registry key	Description
root/zero-login/buttons/configure/authorized	If set to 1, the Configure button is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/info/authorized	If set to 1, the System Information button is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/keyboard/authorized	If set to 1, the Keyboard Layout selection is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/locale/authorized	If set to 1, the Locale selection is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/mouse/authorized	If set to 1, the Mouse selection is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/onscreenKeyboard/ authorized	If set to 1, the on-screen keyboard option is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/power/authorized	If set to 1, the Power button is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/poweroff/authorized	If set to 1, the Poweroff option is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/reboot/authorized	If set to 1, the Reboot option is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/show/authorized	If set to 1, buttons are displayed in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/sleep/authorized	If set to 1, the Sleep option is available in the login or Smart Zero credentials dialog box.
root/zero-login/buttons/touchscreen/authorized	If set to 1, the Touchscreen selection is available in the login or Smart Zero credentials dialog box.
	NOTE: The root/touchscreen/enabled key must also be set.

SNMP

This table describes the SNMP registry keys.

Table E-52 SNMP

Registry key	Description
root/snmp/agentBehaviour/enable	If set to 1, the SNMP daemon is enabled and the thin client is accessible via SNMP. Be sure that you have a security SNMP configuration or work in a secure network environment.
root/snmp/agentBehaviour/usePrivateConfFile	If set to 1, the SNMP daemon uses a user custome setting file for some advanced features but does not generate snmpd.conf from the registry.

Table E-52 SNMP (continued)

Registry key	Description
root/snmp/agentBehaviour/listenInterface	This option does not work well with DHCP service, so please set this area blank when you use only one wired interface card or use a wireless card. Set this value to SNMP daemon listen Interface for security, only the specified interface on system can access ThinPro via SNMP.
	NOTE: If this area is blank, the agent is listening to all of the network interfaces.
<pre>root/snmp/agentBehaviour/communityList/ {UUID}/ communityName</pre>	Community Name, only specified community name can access ThinPro.
<pre>root/snmp/agentBehaviour/communityList/ {UUID}/ permission</pre>	Specified a community permission. Read-only can only get system information and read-write can change ThinPro setting.
<pre>root/snmp/agentBehaviour/communityList/ {UUID}/ accessibleOID</pre>	Only OIDs that start with this value can be accessed.

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